

## PERSONAL INFORMATION

**Francesco Rizzi**

 info: <https://www.linkedin.com/pub/francesco-rizzi/16/168/838>

 publications: [https://scholar.google.it/citations?user=r1S3L\\_QAAAAJ&hl=en](https://scholar.google.it/citations?user=r1S3L_QAAAAJ&hl=en)


Skype: franz\_rizzi

## POSITION

- Associate professor in management at Università di Perugia
- Visiting researcher at Trinity College of Dublin
- Partner of ERGO srl

28/12/2015-onwards

**Associate professor in management**

Department of Economics

Università degli studi di Perugia

20, Via Alessandro Pascoli, 06100, Perugia, Italy

[www.econ.unipg.it](http://www.econ.unipg.it)

Business or sector Research, service and training

**Main research topics:**

- Corporate sustainability:
  - Strategic management for sustainable development
  - Sustainable supply chain management
  - Innovation management in green markets
  - Crisis and disaster management
- Sustainable consumption and production
  - Consumer behaviour and sustainability
  - Green marketing
- Resource efficiency:
  - Eco-design and performance management
  - Environmental footprint and emission trading
  - Industrial clusters and symbiosis
  - Smart cities and communities

**WORK EXPERIENCE**

01/01/2011-27/12/2015

**Researcher and assistant professor in management and sustainability**

01/10/2005-31/12/2010

**Research fellow in management and sustainability**

03/11/2003-30/09/2005

**Research assistant in management and sustainability**

Istituto di Management

Scuola Superiore Sant'Anna

24 Piazza Martiri della Libertà, 56127, Pisa, Italy

[www.idm.sssup.it](http://www.idm.sssup.it) ; [www.sum.sssup.it](http://www.sum.sssup.it)

Business or sector Research, service and training

**Main research topics:**

- Corporate sustainability:
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  - Consumer behaviour and sustainability
  - Green marketing
- Resource efficiency:
  - Eco-design and performance management
  - Environmental footprint and emission trading
  - Industrial clusters and symbiosis
  - Smart cities and communities

01/10/2013-onwards **Affiliated researcher in innovation management**  
TrinityHaus  
Trinity College of Dublin  
College Green, Dublin 2, Ireland

Business or sector Research, service and training

**Main research topics:**

- Innovation dynamics in the urban environment, citizen-led innovation, citizen empowerment, entrepreneurship in people friendly cities, value chain management in data rich environments, crowdsourcing

27/12/2006-onwards **Work programme leader**  
European Energy Research Alliance  
Joint Programme on Economic, Environmental and Social Impacts of Energy Policies and Technologies  
72 Rue de Namur, 1000, Bruxelles, Belgium  
[www.eera-set.eu](http://www.eera-set.eu)

Business or sector Research and service

**Main fields of activity:**

- Coordination of interdisciplinary research effort at European level to develop more efficient and cheaper low carbon energy technologies.

27/12/2006-onwards **Partner and Project manager**  
ERGO srl  
5 Piazza Alessandro D'Ancona, 56127, Pisa, Italy  
[www.ergosrl.net](http://www.ergosrl.net)

Business or sector HSEQ consultant

**Main fields of activity:**

- Transfer of research outcomes for innovation in environmental and energy systems, Environmental Impact Assessment, Environmental Legislation Compliance, Emission Trading Systems, Market Instruments, QHSE Certifications.

11/07/2014-11/07/2015 **Assistant of the judicial administration**  
Italgas Spa  
9 Largo Regio Parco, 10153, Torino, Italy

Business or sector Gas distribution services

**Main fields of activity:**

- Supervision on the design and implementation of the corporate system framework.

- 01/05/2010-01/10/2013 **Board member**  
 Geo Energy Service Spa  
 14 Via Roncalli, 56045, Pomarance, Italy
- Business or sector Energy provider – Tele-heating network management
- Main fields of activity:**
- Business planning, strategy development, performance control.
- 01/07/2004-31/08/2004 **Consultant**  
 Pont-Tech Srl  
 32 Viale Rinaldo Piaggio, 56025, Pontedera, Italy
- Business or sector Industrial Research and Technology Transfer
- Main fields of activity:**
- Consultancy to the Pontedera municipality in assessing technical, environmental and economical feasibility of a periurban wind-farm in Pontedera (Italy)
- 01/05/2003-31/09/2003 **Business development assistant**  
 All.Co Group SpA  
 15 via Antonio Meucci, Ospedaletto Industrial zone, 56121, Pisa, Italy
- Business or sector Integrated Aluminum Industry
- Main fields of activity:**
- Support for the technical, environmental and economical design and assessment of a new industrial site
- 01/06/2001-01/06/2002 **Research assistant (University internship)**  
 Serchio River Basin Authority  
 1 via Vittorio Veneto, Lucca, Italy . 55100, Lucca, Italy
- Business or sector River Basin Public Authority
- Main fields of activity:**
- Researcher assistant on hydraulic risk management (Strategy Division).

## EDUCATION AND TRAINING

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- 29/01/2015 **National scientific qualification art.16 of the law 30 December 2010, n.240) – Field: 13/B2.** Professional qualification  
 Ministry of Education, Universities and Research, Italy
- Disciplinary area: Management
- 05/12/2014 **“H2S Safety” training attendance according to D.Lgs 81/08 artt. 32 comma 4 and 98 comma 2.** Professional qualification  
 HSE Global Service S.a.S, Italy
- Health and safety management in areas with high concentration of risks
- 01/01/2011-01/06/2014 **PhD in Theories and Methods for the Economic Analysis** PhD  
 Università Europea di Roma, Italy
- Research doctorate in management
  - Quantitative research methods

10/03/2009-13/03/2009	<b>IEMA Advanced EMS Auditor “Occupational Health and Safety Systems Verifier”</b> SOGEA – RINA Training Factory, Italy ▪ IEMA Advanced EMS Auditor qualification	Professional qualification
06/10/2007-20/10/2007	<b>Executive Courses “Learning China in China” and “Business in China”</b> University of Chongqing - School of Economics and Business Administration, Republic of China ▪ Executive business specialization	Professional qualification
20/09/2006-22/09/2006	<b>Advanced course in “Sustainable development”</b> Centro de Tecnologías Ambientales/TIRME – Illes Balears, Spain ▪ Specialization course within the framework of the EU INTERREG programme	Professional qualification
11/05/2003-15/05/2003	<b>Executive courses for “Environmental Management System Developers” and “Environmental Management System Lead Auditors”</b> Rina Industry SpA, Genova, Italy ▪ British Standard Institute licences EN20 and EN16	Professional qualification
01/11/2002-01/11/2003	<b>Master Degree in Environmental Management ad Control</b> Scuola Superiore Sant’Anna, 33 Piazza Martiri della Libertà, 56100, Pisa, Italy ▪ Annual post-lauream Master Degree in Environmental Management ad Control	Master degree (post-lauream)
01/09/2002	<b>Member of National Board of Engineers - Section A</b> University of Pisa – Faculty of Engineering, Via Diotisalvi, 56100, Pisa, Italy ▪ Member of National Board of Engineers in the following sectors: civil, environmental, industrial and information engineering	Member of National Board of Engineers
01/11/2002-01/11/2003	<b>Degree in Civil Engineering</b> University of Pisa – Faculty of Engineering, Via Diotisalvi, 56100, Pisa, Italy ▪ Civil Engineering degree, <b>110/110 cum Laude</b>	Degree in Engineering

**PERSONAL SKILLS**

Mother tongue Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
(Replace with name of language certificate. Enter level if known)					
Spanish	B2	B1	A2	A1	A1
(Replace with name of language certificate. Enter level if known)					



Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
 Common European Framework of Reference for Languages

Communication skills	▪ Good communication skills gained through years of teaching and consulting experience
Organisational / managerial skills	▪ Leadership (I have coordinated research and consultancy teams, in Italy and abroad, made by up to 18 members)
Job-related skills	▪ Good command of quality control processes (currently responsible for the delivery of research outputs in European projects)
Computer skills	▪ Excellent knowledge of: Operating Systems and related office suites (Win9x, WinNT, WinXp, Linux, OSX), Statistical Software (STATA, SPSS), Qualitative and mixed method research software (NVivo, VOSviewer), Programming Languages (Visual Basic), Technical Software (AutoCad, CadOverlay, HecRas, MathCad, Origin, Surfer and other calculus software, ArcInfo GIS)
Other skills	▪ Passionate traveller, enthusiastic father
Driving licence	▪ A,B

#### ADDITIONAL INFORMATION

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- Memberships and associations**
- 05/2014 – onwards: Member of Società Italiana Marketing (SIMktg)
  - 11/2013 – onwards: Member of Società Italiana di Management (SIMA)
  - 04/2013 – onwards: Member of Group for Research on Organizations and Natural Environment (GRONEN)
  - 02/2013 – onwards: Member of European Academy of Management (EURAM)

**Publications** Full list available at: [https://scholar.google.it/citations?user=r1S3L\\_QAAAAJ&hl=en](https://scholar.google.it/citations?user=r1S3L_QAAAAJ&hl=en)

**Bibliometric citation indexes** (without self-citations; since 2012), accessed: 14/01/2016

- **Google scholar:** 209 citations, H-index: 9; i10-index: 8
- **Scopus:** 100 citations, H-index: 6; Documents: 23

#### Articles

- F. Rizzi (2015). Introduction: Sustainability in a data rich world (Editorial). *Futures*, 74, 78-79.
- N.M. Gusmerotti, F. Corsini, F. Testa, F. Rizzi, M. Frey (2015) Outsourcing environmental services: new insights in to the factors influencing the circular economy. *Environmental Engineering and Management Journal* (in press)
- C. Certomà, F. Corsini, F. Rizzi (2015). Crowdsourcing urban sustainability. Data, people and technologies in participatory governance. *Futures*, 74, 93-106.
- I. Bartolozzi, S. Movridou, F. Rizzi, M. Frey (2015). Life cycle thinking in sustainable supply chains: the case of rubberized asphalt pavement. *Environmental Engineering & Management Journal*, 14(5), 1203-1215.
- F. Corsini, F. Rizzi, N.M. Gusmerotti, M. Frey (2015) Extended Producer Responsibility and the Evolution of Sustainable Specializations: Evidences From the e-Waste Sector. *BUSINESS STRATEGY AND THE ENVIRONMENT*, 24, 466-476.
- F. Rizzi, M. Frey, F. Testa, A. Appolloni (2014). Environmental value chain in green SME networks: the threat of the Abilene paradox. *Journal of Cleaner Production*.
- E. Annunziata, F. Rizzi, M. Frey (2014). Enhancing energy efficiency in public buildings: The role of local energy audit programmes. *Energy Policy*, 69, 364-373.
- T. Daddi, M. Frey, F. Iraldo, F. Rizzi, F. Testa, F. (2014). Integrated Environmental Management Tools for Product and Organizations in Clusters. In *Eco-Innovation and the Development of Business Models* (pp. 179-200). Springer International Publishing.
- M. Borzoni, F. Rizzi, M. Frey (2014) Geothermal power in Italy: A social multi-criteria evaluation. *RENEWABLE ENERGY*, Volume 69, 60:73

- F. Testa, F. Rizzi, T.Daddi, N.M. Gusmerotti, M. Frey, F. Iraldo (2014) EMAS and ISO 14001: the differences in effectively improving environmental performance. *JOURNAL OF CLEANER PRODUCTION*, Volume 68, 165:173
- F. Gasbarro, F. Rizzi, M. Frey (2014) Adaptation Measures of Energy and Utility Companies to Cope with Water Scarcity Induced by Climate Change. *BUSINESS STRATEGY AND THE ENVIRONMENT*, available online.
- E. Annunziata, F. Rizzi, M. Frey (2014) Enhancing energy efficiency in public buildings: The role of local energy audit programmes. *ENERGY POLICY*, available online.
- F. Rizzi, E. Annunziata, G. Liberati, M. Frey (2013) Technological trajectories in the automotive industry: Are hydrogen technologies still a possibility? *JOURNAL OF CLEANER PRODUCTION*, available online.
- F. Rizzi, N.J. van Eck, M. Frey, (2014) The production of scientific knowledge on renewable energies: Worldwide trends, dynamics and challenges and implications for management, *RENEWABLE ENERGY*, Volume 62, 657-671, ISSN 0960-1481, <http://dx.doi.org/10.1016/j.renene.2013.08.030>.
- Bartolozzi, F. Rizzi, A. Borghini, M. Frey (2013) Life cycle assessment of a rubberized asphalt road in Lamia, Greece, *FRESENIUS ENVIRONMENTAL BULLETIN*, Volume 22, 7b, 2004-2010, ISSN 1018-4619
- E. Annunziata, M. Frey, F. Rizzi, (2013). Towards nearly zero-energy buildings: The state-of-art of national regulations in Europe, *ENERGY*, Volume 57, 125–133, ISSN 0360-5442, [10.1016/j.energy.2012.11.049](http://dx.doi.org/10.1016/j.energy.2012.11.049)
- F. Gasbarro, F. Rizzi, M. Frey (2013). The mutual influence of Environmental Management Systems and the EU ETS: Findings for the Italian pulp and paper industry. *EUROPEAN MANAGEMENT JOURNAL*, vol. 31, Issue 1, 16-26, ISSN: 0263-2373, doi: [10.1016/j.emj.2012.10.003](http://dx.doi.org/10.1016/j.emj.2012.10.003)
- Bartolozzi, F. Rizzi, M. Frey (2013). Comparison between hydrogen and electric vehicles by life cycle assessment: A case study in Tuscany, Italy. *APPLIED ENERGY*, vol. 101, 103-111, ISSN: 0306-2619, doi: [10.1016/j.apenergy.2012.03.021](http://dx.doi.org/10.1016/j.apenergy.2012.03.021)
- F. Rizzi, I. Bartolozzi, A. Borghini, M. Frey (2012). Environmental Management of End-of-Life Products: Nine Factors of Sustainability in Collaborative Networks. *BUSINESS STRATEGY AND THE ENVIRONMENT*, vol. Available online, ISSN: 0964-4733, doi: [10.1002/bse.1766](http://dx.doi.org/10.1002/bse.1766)
- M. Battaglia, T. Daddi, F. Rizzi (2012). Sustainable Tourism Planning and Consultation: Evidence from the Project INTER.ECO.TUR. *EUROPEAN PLANNING STUDIES*, vol. 20, No. 2, 193-211, ISSN: 0965-4313, doi: [10.1080/09654313.2012.650908](http://dx.doi.org/10.1080/09654313.2012.650908)
- Bartolozzi, A. Borghini, M. Frey, F. Rizzi (2012). Cicli integrati per il recupero di energia e materia da rifiuti urbani. Esperienze e valutazioni a confronto. In: M. Frey, P. Ghezzi. *Il recupero dei rifiuti. Ricerca, innovazione e sostenibilità nel ciclo integrato*. p. 24-33, PISA:Felici Editore, ISBN: 9788860195654
- Frey, M., & Rizzi, F. (2012). Special section: Integrated urban solid waste management. Editorial. *ECONOMICS AND POLICY OF ENERGY AND THE ENVIRONMENT*. No.3, ISSN 2280-7659, doi: [10.3280/EFE2012-003002](http://dx.doi.org/10.3280/EFE2012-003002)
- F. Rizzi, M. Frey, F. Iraldo (2011). 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. *ENERGY CONVERSION AND MANAGEMENT*, vol. 52 (2011), 3120-3131, ISSN: 0196-8904, doi: [10.1016/j.enconman.2011.04.006](http://dx.doi.org/10.1016/j.enconman.2011.04.006)
- F. Rizzi (2011). La gestione dei pneumatici a fine vita tra vincoli tecnici e di mercato. *GALILEO*, vol. 3, 31-39, ISSN: 1827-7764
- M. Frey, F. Gasbarro, F. Rizzi (2011). Gestione delle performance ambientali e cambiamenti organizzativi: il caso dell'emissions trading scheme nel settore cartario italiano. *QUADERNI DI ECONOMIA DEL LAVORO*, vol. 96, 2011, 13-34, ISSN: 0390-105X
- F. Rizzi, M. Frey (2009). Le energie alternative di Pontedera. *LOCUS*, ISSN: 1827-7772
- F. Iraldo, F. Rizzi (2008). Una mano di colore ecologico . *LARGO CONSUMO*, vol. 4, ISSN: 1121-1385
- F. Iraldo, F. Rizzi (2008). Le certificazioni Ecolabel per settore produttivo . *LARGO CONSUMO*, vol. 4, ISSN: 1121-1385
- M. Frey, F. Rizzi (2008). La geotermia in Italia e nel mondo: dibattito scientifico e segnali di mercato. *ECONOMIA DELLE FONTI DI ENERGIA E DELL'AMBIENTE*, vol. 3, ISSN: 1125-1263, doi: [10.3280/EFE2008-003001](http://dx.doi.org/10.3280/EFE2008-003001)

#### Edited or authored books

- F. Rizzi (2013). Smart city, smart community, smart specialization per il management della



sostenibilità. Gestione d'Impresa. Milano: FrancoAngeli.

- F. Rizzi, NM. Gusmerotti, I. Bartolozzi, A. Borghini (2015). Riorare i beni e i rifiuti. Guida operativa per la costruzione dei centri di riuso. Pisa: Edizioni ETS.

#### Book chapters

- T. Daddi, M. Frey, F. Iraldo; F. Rizzi; F. Testa (2014). Integrated Environmental Management Tools for Product and Organizations in Clusters. In *Eco-Innovation and the Development of Business Models* (pp.179-200). Springer International Publishing. ISBN: 978-3-319-05076-8
- M. Frey, F. Rizzi (2013). The management and governance of new service models in the environmental and energy sectors. In L. Cinquini, A; Di Minin; R. Varaldo (Eds.) *New Business Models and Value Creation: A Service Science Perspective* (pp. 193-213). Springer Milan.
- I. Bartolozzi, A. Borghini, F. Rizzi (2012). Il recupero della gomma degli pneumatici a fine vita. In: M. Frey, P; Ghezzi (Eds.) *Il recupero dei rifiuti. Ricerca, innovazione e sostenibilità nel ciclo integrato dei rifiuti*, Vol. 5, p. 60-69, PISA: Felici Editore, ISBN: 9788860195654
- E. Annunziata, I. Bartolozzi, M. Borzoni, M. Frey, F. Rizzi (2012). Filiere produttive e pianificazione energetica: il caso della filiera idrogeno in Toscana, Italia. In A. Colicelli; P. Terreni (Eds.) *Progetto H2 filiera idrogeno: risultati e prospettive*, p. 65-74, PISA: Dedizioni, ISBN: 9788895613185
- M. Borzoni, F. Rizzi, M. Frey (2012). Assessing the Sustainability of Energy and Environmental Policies in the Area of the "Green Economy": A Theoretical Review. In: Alfredo Agustoni; Mara Maretti. *Energy Issues and Social Sciences, Theories and Applications*, p. 45-60, Milano: McGraw-Hill, ISBN: 9788838690730
- M. Frey, F. Rizzi (2011). Risorse endogene e sviluppo del territorio: la geotermia nei nuovi scenari di pianificazione. In: M. Lazzeroni; A. Piccaluga. (Eds.) *Dal passato al futuro: Nuove analisi e idee per la città di Volterra*. p. 171-192, LUCCA: Maria Pacini Fazzi, ISBN: 9788865500767
- M. Frey, F. Rizzi (2011). Gestione e governance dei nuovi modelli di servizi nel settore ambientale ed energetico. In: L. Cinquini; A. Di Minin; R. Varaldo (Eds.) *Nuovi modelli di business e creazione di valore: la Scienza dei Servizi*. p. 231-251, MILANO: Springer, ISBN: 9788847018440
- F. Rizzi, F. Testa (2011). Adaptation to market changes in practice: evidences from latent manufacturing clusters in Tuscany. In: A.B. Savarese (Ed.) *Manufacturing Engineering*. p. 37-64, Hauppauge, NY: Nova Science Publishers, Inc., ISBN: 9781612099873
- M. Frey, F. Rizzi (2008). Non solo Italia: l'applicazione dell'approccio in altre realtà nazionali. In: M. Frey; F. Iraldo (Eds.). *Il management dell'ambiente e della sostenibilità oltre i confini aziendali*. p. 280-315, Milano: Franco Angeli, ISBN: 9788856807639
- T. Daddi, F. Rizzi (2008). Strumenti conoscitivi e sistemi informativi. In: M. Frey; F. Iraldo (Eds.) *Il management dell'ambiente e della sostenibilità oltre i confini aziendali*. vol. 0, p. 95-122, Milano: Franco Angeli, ISBN: 9788856807639

#### Conference Proceedings

- F. Rizzi (2015) The role of social advertising in building sustainable markets. In: 14th ABIS ANNUAL COLLOQUIUM, SDA Bocconi School of Management, Milan, Italy, October 19-21
- F. Rizzi, C. Pellegrini, M. Battaglia (2015) Social finance: customer-oriented innovation or product for new customers?. In: The R&D MANAGEMENT Conference 2015, Pisa, Italia, June 24-26.
- F. Corsini, F. Rizzi, M. Frey (2015) Institutional legitimacy of non-profit innovation facilitators: forms and antecedents in regulated environments. In: The R&D MANAGEMENT Conference 2015, Pisa, Italia, June 24-26.
- E. Annunziata, F. Rizzi, F. Gasbarro, M. Frey (2015) Institutional entrepreneurship for the transition towards an innovative energy sector. In: The R&D MANAGEMENT Conference 2015, Pisa, Italia, June 24-26.
- F. Gasbarro, F. Rizzi, M. Frey (2015) Sustainable entrepreneurs are running in a steeplechase: evidence from a market transformation in a clean energy sector. In: The R&D MANAGEMENT Conference 2015, Pisa, Italia, June 24-26.
- E. Delbufalo, F. Rizzi, M. Battaglia (2013) Proximity of data and data on proximity: an insight on the remoteness of neighbouring SMEs. In: 8th Conference on Sustainable Development of Energy, Water and Environment Systems. Zagreb. Faculty of Mechanical Engineering and Naval Architecture, Dubrovnik, Croatia, 22-27 September 2013.
- E. Annunziata, F. Rizzi, M. Frey (2013) Energy efficiency in public buildings: evidence from

- Italian municipalities. In: 8th Conference on Sustainable Development of Energy, Water and Environment Systems. Zagreb: Faculty of Mechanical Engineering and Naval Architecture, Dubrovnik, Croatia, 22-27 September 2013.
- F. Corsini, F. Rizzi, M. Frey (2013) Exploring aspects of environmental, mobility and economical smartness in European cities: a factor analysis approach. In: 8th Conference on Sustainable Development of Energy, Water and Environment Systems. Zagreb: Faculty of Mechanical Engineering and Naval Architecture, Dubrovnik, Croatia, 22-27 September 2013.
  - C. Certomà, F. Rizzi, F. Corsini (2013) Crowdsourcing urban sustainability. Data, people and technologies in participatory governance. In: 8th Conference on Sustainable Development of Energy, Water and Environment Systems. Zagreb: Faculty of Mechanical Engineering and Naval Architecture, Dubrovnik, Croatia, 22-27 September 2013.
  - F. Gasbarro, F. Rizzi, M. Frey (2013) Adaptation measures of energy and utility companies to cope with water scarcity induced by climate change. In: 8th Conference on Sustainable Development of Energy, Water and Environment Systems. Zagreb: Faculty of Mechanical Engineering and Naval Architecture, Dubrovnik, Croatia, 22-27 September 2013.
  - F. Rizzi (2013) The role of meta-organizations in the evolution of environmental regulation: lessons learnt from two geothermal oligopolies. In: WOA2013 - Organizing in turbulent times: the challenges ahead. Roma: WOA2013, Roma, Italia, 30-31 May 2013. ISBN: 9788867870554
  - F. Rizzi, G. Liberati, E. Annunziata, M. Frey (2012). Technology progress towards a Hydrogen Economy: an international patent analysis. In: VII Conference on sustainable development of energy, water and environmental systems. Skopje: Grafotisk, Ohrid, Macedonia, 01-06 July 2012. ISSN: 1847-7178
  - F. Rizzi, E. Annunziata, M. Frey (2012). Towards zero emission buildings: the state-of-the-art of national regulations in Europe. In: VII Conference on sustainable development of energy, water and environmental systems. Skopje: Grafotisk, Ohrid, Macedonia, 01-06 July 2012. ISSN: 1847-7178.
  - E. Annunziata, F. Rizzi, M. Frey (2012). European Legal Status of the Improvement of Energy Efficiency in Buildings. In: Proceedings "International Conference on the European Energy Market 2012". Piscataway, NJ: IEEE Press. ISBN: 9781467308342, Firenze, 10-12 May 2012, doi: 10.1109/EEM.2012.6254652
  - F. Rizzi, I. Bartolozzi, A. Borghini, M. Frey (2012). Operationalization of producer responsibility principle in Italian end-of-life tire market. In: International conference Protection and Restoration of the Environment XI - Proceedings. p. 2686-2695, Thessaloniki: Aristotle University of Thessaloniki Press, ISBN: 9789609992213, Thessaloniki, 3-6 July 2012
  - F. Rizzi, I. Bartolozzi, A. Borghini, M. Frey (2012). How to operationalize producer responsibility principle in open-loop supply chains: a theoretical framework. In: International conference Protection and Restoration of the Environment XI - Proceedings. p. 2676-2685, Thessaloniki: Aristotle University of Thessaloniki Press, ISBN: 9789609992213, Thessaloniki, 3-6 July 2012
  - Bartolozzi, M. Frey, F. Rizzi, I. Antunes, D. Fornai (2012). The environmental impact assessment of Asphalt Rubber: an interesting application for end of life tires. In: The ISWA 2012 World Solid Waste Congress. vol. 2, p. 1065-1074, Firenze: Press Service Srl, ISBN: 9788890769429, Firenze, 17-19 September 2012
  - F. Corsini, M. Frey, F. Rizzi (2012). Recent trends in e-waste research. In: World Congress on Sustainable Technologies - Proceedings. p. 103-106, Piscataway, NJ: Institute of Electrical and Electronics Engineers ( IEEE ), ISBN: 9781908320094, Londra, 19-22/11/2012
  - Bartolozzi, F. Rizzi, A. Borghini, M. Frey (2011). Life cycle assessment of rubberized asphalt road pavement in Lamia, Greece. In: -. Proceedings of the Third International Conference on environmental management, engineering, planning and economics. Skiathos, Greece, June 19-24, 2011, p. 897-903, Thessaloniki: Grafima Publ., ISBN: 9789606865435
  - Bartolozzi, F. Rizzi, M. Frey (2011). Comparison between hydrogen and electric vehicles by life cycle assessment. In: Proceedings of the 6th UNESCO Dubrovnik conference on sustainable development of energy, water, and environment systems. ZAGREB: Printera, ISBN: 9789537738136, Dubrovnik, Croatia, September 25-29, 2011
  - F. Gasbarro, F. Rizzi, M. Frey (2011). The mutual influence of Environmental Management Systems and European Emission Trading Scheme on corporate environmental planning: a multiple case study analysis of the Italian pulp and paper industry. In: 6th Dubrovnik conference on sustainable development of Energy, Water and environment systems. ZAGREB: Printera, ISBN: 9789537738136, Dubrovnik, Croatia, September 25-29, 2011
  - F. Rizzi, M. Borzoni (2010). An evolutionary Triple Helix to strengthen energy regulation:



implications for management. In: -. World Energy Congress 2010 - Congress Proceedings. Montreal, Canada, September 12-16, 2010, London:World Energy Council, ISBN: 9780981046334

- G. Buonasorte, F. Rizzi, G. Passaleva (2010). Direct uses of geothermal energy in Italy 2005-2009: update report and perspectives. In: Proceedings World Geothermal Congress 2010. Bali: WGC, ISBN: 9780080433356, Bali, 25-29 April 2010

## DETAILED ACADEMIC WORK EXPERIENCE

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### Research Projects

#### European Projects:

- [November 2015 - onwards] senior researcher in Life+ IRIS. Key topics: Corporate risk assessment and adaptation to climate change, resilience at corporate and inter-firm levels.
- [June 2013 – June 2016] senior researcher in VII Framework Programme MARSOL "Demonstrating Managed Aquifer Recharge as a Solution to Water Scarcity and Drought". Key topics: market assessment of innovative water management tools.
- [November 2012 – onwards] Italian representative designated by Ministry of Education, Universities and Research (MIUR), member of the Management Committee and leader of the WP2 on "Knowledge Platform" for the EC COST Action TU1204 "People Friendly Cities in a Data Rich World".
- [September 2012 – onwards] senior researcher (coordinator) in Life+ PRISCA "Pilot project for scale re-use starting from bulky waste stream". Key topics: design of waste reuse centers, business models for reuse, bulky streams logistics, integration of formal and informal markets
- [May 2012 – onwards] Project evaluator in the field of environmental footprint and emission reduction measures within the EC CleanSky Joint Technology Initiative
- [March 2012 – onwards] senior researcher (coordinator) in EC IEE "Regeocities" (Regulations of Geothermal HP systems at local and regional level in Europe). Key topics: identification of GSHP best practices, design of actions for removing the regulatory barriers of GSHP in European regions
- [January 2013 – September 2013] EC tender "Environmental impacts of renewable energy". Key topics: literature review and multi-criteria assessment of environmental impacts of renewables.
- [September 2010 – September 2013] senior researcher (coordinator) in Life+ ROADTIRE "Integration of end-of-life tires in the life cycle of road construction". Key topics: market assessment, life cycle assessment and SWOT analysis of end of life tire applications, supply chain management.
- [December 2010 – June 2013] senior researcher in FP7 BAT4MED "Boosting Best Available Techniques in the Mediterranean Partner Countries". Key topics: assessment and implementation of Best Available Techniques, industrial environmental performance monitoring and control.
- [November 2010 – November 2013] senior researcher in Life+ LAIKA "Local Authorities Improving Kyoto Actions". Key topics: Climate action plan, Kyoto protocol, urban sustainability
- [July 2012 – February 2013] European Bank for Reconstruction and Development Assignment "Sustainable resource and process management in the chemical and agribusiness sectors in CEI Region". Key topics: development and testing of a multi-criteria methodology for assessing the bankability of sectorial projects.
- [October 2011 – December 2014] senior researcher in Life+ BRAVE "Better Regulation Aimed at Valorizing EMAS". Key topics: eco management and audit scheme, eco management of industrial clusters
- [June 2010 – May 2013] senior researcher in RES MAR "Resau pour l'Environnement dans l'Espace Maritime", Fondo europeo Italia-Francia "Marittimo". Key topics: sharing of best practices for sustainable development, eco management of industrial clusters
- [October 2009 – September 2012] senior researcher in CIP IMAGINE "Innovations for a MAde Green IN Europe". Key topics: eco management in industrial clusters, life cycle thinking.
- [May 2009 – November 2011] senior researcher in MED Programme "MED-IPPC-NET". Key topics: implementation of the European IPPC Directive in the MED area, best available techniques assessment, promotion of sustainable regional development.
- [January 2009 – December 2011] senior researcher in Life+ ECCELSA "ECAP application based on Cluster Experiences and Local SME-oriented Approaches" - LIFE-Plus programme. Key topics: Governance "Pilot Group" to co-ordinate the implementation of the

- cluster approach, implementation of the environmental legislation compliance applicable to SMEs
- [November 2008 – November 2010] senior researcher in DG Enterprise and Industry COSMIC “CSR-Oriented Supply-chain Management to Improve Sustainability” - European Commission DG Enterprise and Industry. Key topics: analysis of relationships between Corporate Social Responsibility (CSR) and competitiveness
  - [June 2008 – June 2009] senior researcher in VI Framework Programme EMPIRE “Environmental regulation and Market-forces Providing Incentives for Resource Efficiency”. Key topics: impact of environmental regulation on corporate competitiveness
  - [November 2006 – November 2009] senior researcher in MED – PACT PAMLED “Partnerships Among European and Mediterranean Municipalities for Local Economic Development”. Key topics: sharing of best practices for urban sustainability.
  - [March 2006 – July 2008] senior researcher in EC - DG Enterprise and Industry COOPERATE “COmpanies OPERating in a Responsible Area and with Transparent Ethics”) Key topics: corporate governance, CSR management in industrial cluster, health and safety management
  - [June 2005 – June 2007] senior researcher in LIFE Third-Countries “ Marrakech Environmental Management Audit Scheme”. Key topics: sharing of best practices for urban eco management.
  - [May 2005 – July 2006] senior researcher in Inter.Eco.Tur Project (“Interreg Eco Turismo”), TREND - INTERREG III Action Programme. Key topics: multiplier effects of research networking, optimal use of resources, improvement of infrastructures in today’s cultural and natural environment
  - [January 2005 - March 2006] senior researcher in EcoSind ESEMPLA “Expérimentation de l’utilisation d’EMAS pour le suivi et la planification locale environnementale”. Key topics: sustainability, voluntary approaches, environmental management and control in industrial clusters, application of environmental policy instruments, environmental reporting, tanning industry, textile industry
  - [November 2003 - February 2006] senior researcher in EC-LIFE PRIONEER “Paper Industry Operating in Network: an Experiment for Emas Revision”. Key topics: EMAS, environmental management in industrial clusters, corporate governance, industrial policies, integrate auditing, energy saving, emission trading system. Consultancy activity to 22 public and private organizations for the implementation and auditing of environmental and/or integrated management systems (HQE).

#### Main National Projects:

- [November 2015 - onwards] project manager in FAR-FAS “SIGS”. Key topics: consumer attitude towards prosumerism in the field of renewable energy; business models for sustainable energy services
- [September 2015 - onwards] project manager in providing assistance to Leroy Merlin Italia in the implementation of a change management process.
- [July 2014 – onwards] project manager in “Geo4P”, funded by MISE-DG.RME and Tuscany Region. Key topics: entrepreneurial dynamics in energy cooperatives, citizen empowerment, business models for sustainable energy services.
- [July 2013 – May 2015] project manager in “BioPower”, Tuscany Region - POR CREO 2007-2013. Key topics: market assessment, supply chain management and business model assessment in the field distributed biomass energy generation
- [May 2015 – October 2015] project manager in the set-up of the tendering process at ATO-Costa, Tuscany, in the framework of the national reform of urban waste management services
- [April 2013 – September 2013] project manager in the assessment of Italian WEEE trends and supply chain structure for Ecolight
- November 2012 – onwards] senior researcher in GOESE project “Global Observatory on the Evolution of the Sustainable Enterprise” – PRIN.
- [September 2012 – onwards] senior researcher PRIN 2010-2011 GOESE (Global Observatory on the Evolution of the Sustainable Enterprise).
- [September 2012 – April 2015] project manager in Project “Asicart”, Tuscany Region - POR FSE 2007-2013. Key topics: analysis of technology innovation systems and regional industrial networks in the field of renewable energy
- [January 2012 – onwards] project manager in Energea srl. Key topics: management of sustainability in the geothermal sector
- [April 2011 – onwards] project manager in the implementation of a waste management system in UniCoop Tirreno, an action research approach
- [October 2011 – October 2013] advisor in the socio-economic assessment of integrated water management scenarios in Lucca, Italy



- [September 2010 – April 2013] project manager in PRAA – Environmental Action Programme, Tuscany Region – “Compare”. Key topics: performance assessment for waste management, resource efficiency, organizational impact of technology innovation.
- [September 2010 – April 2013] project manager in PRAA – Environmental Action Programme, Tuscany Region – “ValRif”. Key topics: cost efficiency in waste management, integrate waste management planning.
- [June 2012 – January 2013] Assignment “Discarica di Ca’ Fissine”. Key topics: feasibility assessment of a landfill in Veneto region.
- [September 2008 – December 2011] project manager in the development of the “Tuscany H2-Cluster” (Filiara H2, Tuscany Region). Key topics: H2 economics, LCA, LCC, Industrial symbiosis and eco-industrial development, MCA, pricing methodologies
- [January 2006 – December 2011] Project manager and Member of the Steering Committee of the International Centre of Excellence for the Geothermal of Larderello (until 12/2011) and Energea (since 01/2012). Key topics: action research, high and low enthalpy systems, district heating/cooling, integrated RES technologies, innovation and technology transfer
- [March 2007 – October 2010] project manager in the development of methodologies and tools for the self-assessment and the improvement of the energetic performance for the industrial and non-industrial actors in the Province of Grosseto, Italy (projects “GRAAL” and “MUSE”, Tuscany Region). Key topics: energy efficiency, communication, awareness management
- [April 2009 – April 2010] project manager in the life-cycle assessment of environmental performances of helicopters, Agusta Westland for: Key topics: LCA, GHG emissions, life cycle performances
- [January 2009 – April 2009] Technical support to Tuscany Region for the drafting of the Guidelines for Environmental Impact Assessment of Wind Farms
- [June 2008 – August 2009] project manager in the design of a Virtual Organization for the transfer of food-traceability technologies between ICT companies and food companies in Grosseto (Project “TRACK”, Tuscany Region). Key topics: Virtual Organizations, technology assessment, food traceability
- [April 2006 - October 2006] Project developer of the International Centre of Excellence for the Technology Transfer (CITT) in RES field. Key topics: biomass energy systems, solar thermal and photovoltaic systems, wind farms, H2 economics, innovation and technology transfer
- [December 2005 - September 2007] Senior researcher in waste management for the industrial cluster of Prato (project PRAA “RIPRENDI”, Tuscany Region). Key topics: technological offer/demand, service development strategies, design of local and industrial policies
- [November 2004 – April 2006] Teacher in the master “Environmental Management and Control”, Scuola Superiore Sant’Anna
- [November 2004 - July 2005] Consultant within an inter-university network (Sant’Anna-Politecnico di Milano) to the Italian Ministry of Environment for the development of the national Observatory on IPPC application. Key topics: IT implementation, multi-stakeholder analysis, environmental data management, environmental communication
- [March 2004 - January 2005] Consultant to ASM SpA for the assessment of the economical and financial feasibility of a waste-to-energy plant in Prato (Italy). Key topics: Waste to Energy technologies, end-of-pipe technologies, multi-scenario performance assessment
- [November 2003 - January 2005] External support to Bocconi University to promote innovation in industrial clusters, to assess strategies for sustainable development, to spread the adoption of voluntary environmental management systems (ISO, EMAS) on behalf of the Environmental Department of Tuscany Regional Government
- [April 2004 - November 2004] Member of a team of researchers led by Bocconi University for the definition of the Regional Energy Plan 2005 on behalf of the Environmental Department of Tuscany Regional Government

#### Consultancy

##### Main customers:

Agusta Westland, Acea, Bekers, Bibi, Cala de’ Medici, Cartiera Lucchese, Cisa, Cosvig, European Commission, Comprital, Comune di Lucca, Comune di Pisa, Dollmar, Electravinds, Eni, Gallione, Galsi, Geothermal European Energy Research Alliance, Knauf Group, Intervet, La Magona d’Italia (Arcelor-Mittal), Mutti, Officinae Verdi, Pratorosso, Provincia di Firenze, Provincia di Grosseto, Provincia di Lucca, Publiambiente, Shell, Sterilgarda, Pata, Terre Uomini Ambiente, Teseco, UniCoopTirreno, Waste Recycling

**Conferences and seminars** • Invited as academic speaker in more than 50 public conferences and seminars (main topics:



- management of sustainability; innovation management; competitiveness of SMEs)
- Speaker or chairman in more than 10 international scientific conferences (including: Strategic Management Society, R&D Management Conference, ABIS-Academy of business in society, Global Innovation and Knowledge Academy, Academy of Management, Sustainable Development of Energy Water and Environment Systems, Corporate Responsibility Research Conference, Accademia Italiana di Economia Aziendale, European Academy of Management, World Energy Conference, International Conference on Environmental Management Engineering Planning and Economics, Workshop dei docenti e ricercatori di organizzazione aziendale, World Geothermal Conference, International Conference on the European Energy Market), with presentation of more than 30 papers.

#### Honours and awards

- 2015 Emerald/EMRBI Business Research Award for Emerging Researchers, Highly commended certificate
- Elected coordinator of the Knowledge Platform of the COST TU 1204 Action "People friendly cities in a data-rich world", Dublin, Ireland
- Invited as member of the Scientific Advisory Board of the SDEWES2013 Conference on Sustainable Development of Energy, Water and Environment Systems, Dubrovnik, Croatia
- Elected work programme leader within the Joint Programme on Economic, Environmental and Social Impacts of Energy Policies and Technologies of the European Energy Research Alliance, Brussels, Belgium
- Elected Working Group coordinator for "Non technical issues for deep geothermal projects" by the European Geothermal Energy Council, Brussels, Belgium
- Elected coordinator for SP "Environmental, socio-economic and risks assessment" by the Geothermal European Energy Research Alliance, Brussels, Belgium

#### Memberships and other positions

- [July 2015] Member of the steering committee of the Consiglio Direttivo del Centro di Ricerca Interuniversitario per le Biomasse da Energia "CRIBE".
- [September 2013 – onwards] coordinator of the Work Programme 1.3 "Understanding how energy technologies and energy practices may be deployed in society" within the Sub Programme 1 "Public Perception and Engagement", Joint Programme on Economic, Environmental and Social Impacts of Energy Policies and Technologies of the European Energy Research Alliance, Brussels
- [March 2013 – onwards] International Journal of Business and Management - Member of the editorial board
- [December 2012 – onwards] International Journal of Green Economics and Production - Member of the editorial board
- [October 2012 - onwards] member of the Scientific Committee in SDEWES Conference (Sustainable Development of Energy, Water and Environment Systems), Dubrovnik, Croatia
- [October 2011 – onwards] coordinator of SP5 "Environmental, socioeconomic and risks assessment" in Geothermal European Energy Research Alliance, Brussels
- [January 2009 – onwards] coordinator of FG3 "non technical barriers" in European Technology Platform – Renewable Heating & Cooling (European Geothermal Energy Council, Brussels).
- [September 2014] Invited lecturer at the think tank on "Smart Cities and the Socially Responsible Firm - New Research Opportunities", organized in Madrid by the Strategic Management Society
- [February 2011 – March 2011] external auditor of the Piemonte Regional Programme "Regime di aiuto per la qualificazione e il rafforzamento del sistema produttivo piemontese", FinPiemonte
- [October 2009 – November 2009] expert evaluator for the European Programme Greece-Cyprus "Framework Programme for Research, Technological Development and Innovation 2009 – 2010 of The Research Promotion Foundation", European Research Programmes and International Cooperation Unit - Research Promotion Foundation
- Reviewer for Climate Policy; Economics and Policy of Energy and the Environment; Energy; Energy Conversion and Management; Energy Policy; Energy Research and Social Science; European Planning Studies; Geothermics; International Journal of Business Management; International Journal of Engineering, Science and Technology; International Journal of Technology Management; Management Decision; Journal of Cleaner Production; Sustainable development; Waste Management, and other international scientific journals
- Reviewer for the international scientific conferences: Euram; Global Innovation and Knowledge Academy; International Conference on Efficiency, cost, optimization, simulation and environmental impact of energy systems; International Conference on Sustainable Development of Energy, Water and Environment Systems; WOA; World Energy Congress
- Member of the Editorial Board in International Journal of Business Management and International Journal of Green Economics and Production
- Guest editor in Futures



**Teachings and academic courses**
**Academic courses:**

- [February 2016 - onwards] Holder of the course “Economics and business management”, A.A. 2015/2016, bachelor in business economics, Terni, University of Perugia
- [September 2014 – onwards] Teacher of sustainability management in the PhD “Management, Innovation, Services and Sustainability”, curriculum in “Change and complexity management” at Scuola Superiore Sant’Anna- Gran Sasso Science Institute (in English)
- [June 2014 – onwards] “Cultore della materia” in “Energy and environmental economics” for the academic years 2013/2014-2014/2015-2015/2016, Università Cattolica del Sacro Cuore, Milan, Italy
- [January 2014 - onwards] Teacher of innovation in the energy sector in the “Executive Master in Environment Innovation & Management” at LUISS Business School, Rome, Italy
- [November 2013 – onwards] Teacher of supply chain management and sustainable management in the Master (laurea magistrale) in Innovation Management at Scuola Superiore Sant’Anna-Università di Trento (in English)
- [September 2013 – onwards] Teacher of business strategies in smart cities in the Master “Smart Solutions - Smart Communities” at Scuola Superiore Sant’Anna (in English)
- [January 2012 – onwards] Teacher of innovation and sustainability management in the PhD “Management, Innovation, Services and Sustainability” programme at Scuola Superiore Sant’Anna (in English)
- [March 2012 - onwards] Teacher of business strategies in smart cities in the Master Mains (Management, Innovation and service engineering) at Scuola Superiore Sant’Anna
- [November 2005 – onwards] Teacher of sustainability management in the Master in Environmental Management and Control at Scuola Superiore Sant’Anna
- [January 2012 – June 2012] Scientific tutor in field of smart grid services in the Master of International Business (MIB), Università Cattolica del Sacro Cuore, Milan, Italy
- [November 2011 – December 2011] Teacher of “Waste management in urban areas” in the Master “Urban Planning and Development” at Tongji University, UNEP, Shanghai (in English)
- [January 2011 – onwards] Member of the Teaching Committee (Collegio dei Docenti) of the Institute of Management, Scuola Superiore Sant’Anna
- [November 2003 - onwards] Teacher in post-lauream masters and training courses on sustainable development, voluntary instruments, market mechanisms (including ETS), energy management, quality and EHS management systems (approximately 40-60 hours/year).

**Other courses:**

- [November 2003 - onwards] Teacher in more than 30 executive training initiatives on business strategy and sustainability management.

**Tutorship**

- [September 2015 – onwards] Supervisor of 3 students in the “Executive Master in Environment Innovation & Management” at LUISS Business School, Rome, Italy
- [November 2014 – onwards] Supervisor of one PhD student in the Executive Doctorate of Business Administration (DBA) at Scuola Superiore Sant’Anna - Grenoble Ecole de Management (GEM).
- [September 2014 – onwards] Supervisor of one PhD students in the PhD “Management, Innovation, Services and Sustainability”, curriculum in “Change and complexity management” at Scuola Superiore Sant’Anna- Gran Sasso Science Institute
- [March 2014 – onwards] Supervisor of 7 students in the Master (laurea magistrale) in Innovation Management at Scuola Superiore Sant’Anna-Università di Trento
- [June 2013 – onwards] Scientific tutor in the field laboratories in the Master in Environmental Management and Control at Scuola Superiore Sant’Anna
- [Aprile 2013 – onwards] Supervisor of 2 students in the Master Mains (Management, Innovation and service engineering) at Scuola Superiore Sant’Anna
- [March 2013 – onwards] Scientific tutor in the field laboratories “Services and technologies for smart cities and extra urban areas - Personal mobility” e “ Smart mobility” in the Master Mains (Management, Innovation and service engineering) at Scuola Superiore Sant’Anna
- [September 2011 – onwards] Supervisor of four PhD student in the PhD “Management, Innovation, Services and Sustainability”, at Scuola Superiore Sant’Anna
- [April 2005 – onwards] Supervisor of 18 students in the Master in Environmental Management and Control at Scuola Superiore Sant’Anna
- [June 2014 – October 2014] Supervisor of one student in the Master “Smart Solutions - Smart Communities” at Scuola Superiore Sant’Anna

**References**

- Prof. Marco Frey, Scuola Superiore Sant’Anna, Director of the Institute of Management ([frey@sssups.it](mailto:frey@sssups.it))

- Prof. Fabio Iraldo, Scuola Superiore Sant'Anna and IEFER Research Fellow ([fabio.iraldo@unibocconi.it](mailto:fabio.iraldo@unibocconi.it))
- Prof. ML Rhodes, Trinity College Dublin, Director of the School of Business ([rhodesml@tcd.ie](mailto:rhodesml@tcd.ie))

DICHIARAZIONE SOSTITUTIVA DI ATTO DI NOTORIETA'  
(Artt. 19 e 47 D.P.R. 28.12.2000 n. 445)

Il sottoscritto dichiara sotto la propria responsabilità che quanto ivi dichiarato corrisponde a verità.

Il sottoscritto dichiara di essere a conoscenza delle sanzioni penali cui incorre in caso di dichiarazione mendace o contenente dati non più rispondenti a verità, come previsto dall'art. 76 del D.P.R. 28.12.2000, n. 445.

Pisa, 14/01/16

Francesco Rizzi

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