

Curriculum Vitae

Personal information

Surname(s) / First name(s)
Address(es)
Telephone(s)
Fax(es)
E-mail

Nationality

Date of birth

Work experience

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

Dates

Occupation or position held

Main activities and responsibilities

Name and address of employer

Type of business or sector

Dates

Occupation or position

Updated: 2016 01 01

Magalini Federico

Home Address: Gardazola, York Road Byfleet, KT147HX, UK
Mobile: +44 (0)7985 712196

federico.magalini@cyrcle.it
magalini@unu.edu

Italian

26th October, 1978

September 2011 - Ongoing

Director at Cyrcle Consulting

Founder of Cyrcle Consulting, an international network of recognized and proven excellence, able to provide its customers with strategic advice and fully support them in the development of projects and high added-value solutions in the areas of sustainability and industrial eco-efficiency.

Cyrcle Consulting The Stables Stansted Park Rowlands Castle Havant Hampshire PO9 6DX

Consultancy

May 2006 – Ongoing

Associate Programme Officer at UNU-IAS

Associate Program Officer with UNU-IAS Operating Unit SCYCLE and involved in Step Initiative (<http://www.step-initiative.org>) mainly in the Task-Force "Policy" focusing on comparative research on national implementation of WEEE policies and Task-Force "Capacity Building".

Responsible for the overview on the transposition and implementation of the WEEE Directive in Member States and comparative assessment of WEEE Policies worldwide (Best WEEE Policy project) as well as climate change related projects.

Institute for the Advanced Study of Sustainability (UNU-IAS), Operating Unit SCYCLE, Platz der Vereinten Nationen 1, 53113 Bonn, GERMANY

International Organization

February 2008 – September 2011

Operations & Quality Manager at Ecoped/Ridomus

Responsible for selection & audit of suppliers, quality manager for ISO 9001:2008 Certification. Development of new businesses for customers and members of Ecoped/Ridomus as well as alternative business models for end-of-life management of e-waste, portable batteries and lead batteries.

Consorzio Ecoped, Via Scarsellini 13, 20161 Milan, Italy

Electronic Industry

November 2005 – May 2006

PhD Researcher



held	
Main activities and responsibilities	Assessment of the financial impacts of the WEEE Directive compliance across EU, with particular attention to the legislative requirements and the registration and reporting requirements as administrative burden. Evaluation of key factors for future strategies in compliance with WEEE legislations.
Name and address of employer	Philips Consumer Electronics, Sustainability Centre, 2 Glaslaan, 5616LW, Eindhoven, the Netherlands
Type of business or sector	Electronic Industry
Dates	May 2003 – May 2007
Occupation or position held	PhD Researcher
Main activities and responsibilities	Research at the Department Of Economic, Management and Industrial Engineering of Politecnico di Milano in the field of the industrial treatment of WEEE, of the optimum configuration of the management system, with particular attention to treatment technologies, raw material second market values and reverse logistics. Lecturer at national and international conferences and workshops on WEEE and eco-efficiency topics. Author of more than 20 publications on national and international journals, conference proceedings and books.
Name and address of employer	Politecnico di Milano University, 32, P.za Leonardo da Vinci, 20133, Milano, Italy
Type of business or sector	Academic – Research
Dates	May 2003 – May 2007
Occupation or position held	Assistant Professor
Main activities and responsibilities	Assistant Professor for Bachelor of Science and Master of Science at Politecnico di Milano University: Courses on Industrial Plant, Safety & Ergonomics, Improvement of Industrial Eco-Efficiency. Lecturer at Specializing Master in Logistics and Transport at Politecnico di Milano University: Courses on Reverse Logistics and WEEE Management. Tutoring and supervising activity for graduating students in Industrial Engineering and Mechanical Engineering. Lecturer in International & National Conferences and Workshops on WEEE and Eco-Efficiency topics.
Name and address of employer	Politecnico di Milano University, 32, P.za Leonardo da Vinci, 20133, Milano, Italy
Type of business or sector	Academic – Educational

Education and training

Dates	2004 – 2007
Name and type of organization providing education and training	Politecnico di Milano University
Title of qualification awarded	PhD in Economics, Management and Industrial Engineering
Principal subjects/occupational skills covered	The main area of research focused on “Management Systems for Waste Electrical and Electronic Equipment”. Title of the thesis “ <i>Driving Factors in WEEE Management System Design</i> ” In particular, the PhD research focused on the analysis of gaps between Directive 2002/96 and national transpositions and on effectiveness of WEEE Management Systems across EU in order to identify a strategy for

Dates	effectiveness WEEE Management. 1997 – 2003
Name and type of organization providing education and training	Politecnico di Milano University
Title of qualification awarded	Master of Science Mechanical Engineering
Principal subjects/occupational skills covered	Industrial Engineering, Logistics, Plant design, Production Management, Safety & Ergonomics, Project Management. Title of graduating thesis: “The industrial treatment of end-of-life white goods: analysis of critical issues for industry development”. The thesis won the award for the 2003 best national thesis on industrial issues, published by Fondazione De Januarino, a foundation of ANIMP (Italian Industrial Engineering Association).
Key Skills	<ul style="list-style-type: none"> • Excellent written and oral communication skills with several publications and lectures (national and international) for master students, PhD students and training courses • Good analytical, critical, strategic, and problem solving skills • Ability to interact with persons of different cultures • Ability to work as a team member • Ability to coordinate projects and compile reports at national and international level • Ability to organize workshops and conferences at national and international level • Working knowledge of MS Office and other informatics tools (LCA software, CAD programs, etc.)
Mother tongue(s)	Italian
Other language(s)	English
Understanding	Excellent
Speaking	Excellent
Writing	Excellent
Selection of Project Experience (excluding confidential ones under NDA)	
2016-2017	DG Home Affairs – DOTCOM Waste project The project seeks to increase capabilities of law enforcement agencies, customs and port authorities, environmental agencies and prosecutors to fight cross-border waste crime more cost-effectively. To achieve this objective, the project aims to increase these stakeholders’ understanding of current waste crime trends and to identify and share best practices for detecting, investigating and prosecuting waste crime activities. The project expects to produce new knowledge about waste crime trends and compile a compendium of best practices for detecting, investigating and prosecuting waste crime activities. Role in the project: Project Manager
2015	Ecotic – WEEE Generated in Romania: country study The project aimed at quantifying the WEEE generated at national level, taking into account historical time series of appliances put on market, disposal path of consumers and quantity in stock in households. The study has been carried out in cooperation with GfK Romania, developing ad-hoc consumer survey to generate lifetime profiles for different appliances and

- disposal patterns of consumers. Role in the project: Project Manager
- 2015** GSMA – Position Paper
The paper aimed at describing the challenges for mobile phone Industry and telecom operators in e-waste management across Latin America. The study highlighted the main organizational and legislative barriers as well as the way forward for the region. Role in the project: Project Manager
- 2015** UNIDO – Development of financing model for Ethiopia
UNIDO and the Ethiopian Government, with financial support from the Global Environmental Facility (GEF) have launched the E-waste Management Project in Ethiopia (EWaMP) in order to enable sustainable collection and treatment of e-waste. The project worked out proposals covering the various aspects of financing a sustainable and cost-efficient e-waste management system taking into account the regulatory framework and background conditions of Ethiopian market.
- 2014** European Commission, DG ENV – Art.11 supporting study
The study conducted in cooperation with 2 other partners (BiPRO and BIO) aims at supporting the European Commission – Directorate General Environment (DG ENV) with the revision of recovery targets, preparation for re-use targets and on the method for the calculation of the recovery targets with the new WEEE Directive.
- 2014** European Commission, DG ENV – Art.7 supporting study
The study conducted in cooperation with 3 other partners (BIO, CBS and REC) aims at supporting the European Commission – Directorate General Environment (DG ENV) by providing the necessary scientific data, results and common quantification methodology according to WEEE Directive 2012/19/EU Article 7 provisions. By means of effective translation of technical findings into practical measures (reports, draft implementing acts, impact assessment and possible legislative proposals), these activities and results will in turn guide and enable the accomplishment of the requirements outlined in Articles 7(4), 7(5), 7(6) and 7(7) of the WEEE Directive. Role in the project: Project Manager.
- 2013-2015** CWIT – EU FP7 Project
The aim of the Countering WEEE Illegal Trade (CWIT) project, coordinated by INTERPOL, is to provide a set of recommendations to support the European Commission, law enforcement authorities, and customs organizations, in countering the illegal trade of e-waste in and from Europe.
- 2011-2014** PREMANUS – EU FP7 Project
The PREMANUS project is researching how IT can be used to improve the remanufacturing of industrial products. The goal of PREMANUS is to provide economic and ecologic decision support for remanufacturing per individual product based on product lifecycle information. To achieve its goal, PREMANUS will provide a software solution that provides Business Decision Support for individual End-of-Life (EoL) product recovery and enables collecting the required product information from the product's ecosystem. From 1 August 2013 I had the role of Project Coordinator.
- 2012** ECODOM – Study on quantification of WEEE Arising in Italy (Project Manager)
The project aimed at quantifying the WEEE arising annually at national level, taking into account historical time series of appliances put on market, disposal path of consumers and quantity in stock in households. The study has been carried out coordinating two external partners (IPSOS for the consumer survey carried out and Politecnico di Milano for development of national prediction model). International benchmarking with relevant literature and studies has been carried out during the validation phase of the project.
- 2012, 2014, 2016** E-waste Academy – Training Program for Policymakers and SMEs from developing countries (Project Manager)

	<p>The project aimed at creating an academy for policy makers and other stakeholders involved E-waste management system design in developing countries.</p> <p>First EWA has been carried out in collaboration with GeSI, and resulted in a platform for sharing best practices and training enabling the achievement of sustainable solutions and approaches in developing countries, also encouraging the cooperation between different countries. Information can be found on www.ewasteacademy.org</p>
2011	<p>REC Turkey – Supporting Impact Assessment for Implementation of WEEE Directive in Turkey</p> <p>The project aimed at supporting REC Turkey during the Impact Assessment of Transposition and Implementation of WEEE Directive in Turkey. Environmental, economic and social impacts have been carried out on turkey specific background and boundary conditions. Estimation of WEEE Arising and breakdown per different provinces supporting what-if scenarios and roadmap development have also been provided. A detailed International benchmarking on selected policy options has been carried out to facilitate discussions with Turkish stakeholders.</p>
2009	<p>UNEP - Sustainable Innovation and Technology Transfer Industrial Sector Studies. Recycling: from e-waste to resources</p> <p>The report aimed at carrying out an analysis of the market potential of relevant technologies for the e-waste recycling sector in selected developing countries. Application of the 'Framework for UNEP Technology Transfer Activities in Support of Global Climate Change Objectives' in order to foster the transfer of innovative technologies in the e-waste recycling sector has been done as well as the identification of innovation hubs and centers of excellence in emerging economies relevant for e-waste recycling technologies.</p>
2008	<p>EPSON – Research project on Ink Cartridges take back scenarios for different EU Countries</p> <p>The project aimed at providing evidences on the environmental implications of collection and recycling/refilling programs for empty ink jet cartridges (IC) under different scenarios (take back network, recycling and refilling options to be compared).</p>
2008	<p>UNEP-DTIE – Internal report drafting UNEP e-waste strategy</p> <p>The report aimed at developing UNPE-DTIE strategy on e-waste, including synergies and gap-analysis in respect of UN agencies ongoing activities.</p> <p>The report analyzed also further developments of GeSI e-waste working group and highlighted options for revamping ongoing activities of members.</p>
2007	<p>European Commission, DG ENV – Research Study for the Review of the WEEE Directive (2002/96/EC)</p> <p>The study aimed at assessing the current impacts of the WEEE Directive across EU27 and developing options for its development, improvement and simplification in respect of: scope, collection targets, recycling targets, reuse targets and treatment requirements.</p> <p>Main tasks carried out in the study focused on economic impact assessment, and assessment of options in respect of the scope of WEEE Directive.</p>
2006	<p>PHILIPS CE – Assessment of financial impact in WEEE management across EU.</p> <p>The analysis has been carried out based on legislative requirements across EU, specific contract details of National Compliance Schemes joined by Philips and on other key issues that allowed for an assessment of the economic burden of WEEE management related activities.</p> <p>Particular attention has been paid to the evaluation and assessment of</p>

	<p>reporting and registering requirements across EU Member States in order to assess the financial burden of such activities related to the compliance of WEEE legislation.</p>
2006	<p>ECODOM – Assessment of WEEE arising in 2006 to 2009 for the Italian large household equipment collective scheme (ECODOM - www.ecodom.it).</p> <p>The analysis has been carried out on the basis of appliances sold by retailers. The amount of WEEE arising has been assessed on a local level, split in collected at municipal collection points and retailers supply chain.</p> <p>A sensitivity analysis has been carried out to assess the impact of variation of key parameters like increase or decrease of sales, changes in the retailers take back options, changes in the retailers supply chain and changes in the local collection schemes.</p>
2005	<p>AMSA – Analysis of alternative scenarios for the collection of WEEE in the town of Milano assessed for Municipality society for Municipal Solid Waste management (AMSA).</p> <p>The present situation and different scenarios after the approval and future obligations imposed by national legislation on WEEE have been assessed. Amounts of WEEE arising and origin (B2B/B2C) were assessed and costs for collection and sorting have been estimated on the basis of activities carried out.</p>
2005	<p>BUSINESS PLAN – Analysis of critical element to ensure economic sustainability for a plant recycling batteries in the northern region of Italy.</p> <p>An assessment of available technologies for recycling Ni-Cd, Li-ion and Li-Pol batteries has been carried out, evaluating both mature and developing technologies. An evaluation of batteries arising in the northern regions of Italy has been carried out in order to assess the best logistic solution for the location of the plant. A sensitivity analysis has been carried out on those parameters that highly influence the economic sustainability of the business.</p>
2005	<p>Arthur Di Little – Freelance consultant in the assessment of WEEE downstream in Italy.</p> <p>Key issues were the assessment of treatment capacity installed in Italy, reverse logistic chain design and critical elements for ensuring the economic feasibility of recycling treatment facilities.</p>
2004	<p>NOIROS – Freelance consultant in the assessment of WEEE management options in Regione Lombardia (The main region of northern Italy).</p> <p>The aim of the project was to assess the main options for collection and treatment of WEEE arising to set up a pilot project in order to evaluate the feedback of stakeholders involved in the WEEE recycling chain (final users, retailers, collection sites and recyclers). An assessment of average costs for collection of WEEE by municipalities and private societies has been carried out too, in order to provide a first indicator of the burden of separate collection not financed by producers.</p>
2003 – 2005	<p>ECO4ME – The Project ECO4ME (Environmental Costing Outsourcing for Medium Enterprise), carried out at the Department Of Economic, Management and Industrial Engineering of Politecnico di Milano, focused on the analysis of environmental costs and waste costing. CARIPO Foundation has financed the project.</p> <p>The aim of the project was the development of a model for waste costing based on an Activity Based Costing Model and the implementation of software (Oracle Financial Analyzer). The software was a flexible tool for analyzing processes of small and medium enterprises providing an outsourcing service. The general aim was to provide an easy and flexible tool to support decisions and perform an environmental and waste costing analysis.</p> <p>(www.eco4me.it).</p>

List of Publications and Conferences

Books

1. 2013 – F. Magalini, R. Kuehr, W. Crock – EWAM Toolkit: Proceedings from the 2012 GeSI&Step E-waste Academy Managers Edition. Available on iTunes store.
2. 2004 - E. Cagno, A. Di Giulio, F. Magalini, L. Tardini, P. Trucco - Recupero e trattamento dei RAEE: Sfide per un nascente settore industriale - ANIMP SERVIZI SRL – ISBN 88-88198-06-7 - Milano
3. 2004 - E. Cagno, A. Di Giulio, F. Magalini, P. Trucco - Esercizi di Ergotecnica – CUSL

Studies/Reports

1. 2016 DG ENV: Study on collection rates of waste electrical and electronic equipment (WEEE): possible measures to be initiated by the commission as required by article 7(4), 7(5), 7(6) and 7(7) of directive 2012/19/EU on waste electrical and electronic equipment (WEEE).
2. 2015 GSMA E-waste in Latin America; Statistical analysis and policy recommendations
3. 2015 Ecotic Quantifying waste from Electrical and Electronic Equipment in Romania
4. 2015 DG ENV Study on WEEE recovery targets, preparation for re-use targets and on the method for calculation of the recovery targets
5. 2012 Ecodom: Household WEEE Generated in Italy
6. 2012 ITU - Toolkit on Environmental Sustainability in the ICT Sector
7. 2009 StEP White Paper - E-waste Take-Back System Design and Policy Approaches - ISSN: 2071-3576 (Online)
8. 2009 StEP White Paper - On the Revision on EU's WEEE Directive - COM(2008)810 final - ISSN: 2071-3576 (Online)
9. 2009 UNEP - Sustainable Innovation and Technology Transfer Industrial Sector Studies. Recycling: from e-waste to resources
10. 2007 DG ENV - Review of Directive 2002/96 on Waste Electrical and electronic Equipment (WEEE). Contract No: 07010401/2006/442493/ETU/G4 ENV.G.4/ETU/2006/0032

International Journals

1. 2008 E. Cagno, F. Magalini, P. Trucco, Modelling and planning of Product Recovery Network: the case study of end-of-life refrigerators in Italy - Int. J. of Environmental Technology and Management 2008 - Vol. 8, No.4 pp. 385 - 404

International Magazines/ Newspapers

1. 2011 F. Magalini – Design for Disassembly in Electronics Industry - AE Parts & Components - n°7 September - pp. 8-20 - Tecniche Nuove
2. 2011 F. Magalini – The hidden role of raw materials - AE Parts & Components - n°2 February - pp. 40-43 - Tecniche Nuove
3. 2008 - J.Huisman, F.Magalini, R.Kuehr - Where should WEEE change? – E-scrapnews.com - August
4. 2008 - J.Huisman, R. Kuehr, C. Maurer, F. Magalini – How can WEEE get it right? – Recycling Magazine No 6 2008.
5. 2007 - F. Magalini, J. Huisman - The WEEE Directive: Status of implementation and future developments - E-scrapnews.com - April
6. 2006 - J. Huisman, A. Stevels, F. Magalini - Where did WEEE go wrong in Europe? - E-scrapnews.com – October

National Journals

1. 2011 F. Magalini - Green Design: meglio riciclare o riparare? - Il Progettista industriale - n°2 Febbraio - pp. 22-23 - Tecniche Nuove
2. 2005 - E. Cagno, F. Magalini, P. Trucco - Raccolta Differenziata: Una logistica al contrario - Logistica - n° 9 Ottobre - pp. 116-124 - Tecniche

**International
Conferences (as
keynote or speaker)**

- Nuove
3. 2004 - E. Cagno, F. Magalini, L. Tardini, P. Trucco - I sistemi di recupero e trattamento dei RAEE: struttura della rete e criticità di gestione - Servizi a Rete - n° 5 Settembre-Ottobre - pp. 49-61 - Tecneedit
 4. 2004 - E. Cagno, F. Magalini, L. Tardini, P. Trucco - Apparecchiature Elettriche ed Elettroniche: la progettazione delle reti di reverse logistics - Logistica - n° 9 Ottobre - pp. 58-64 - Tecniche Nuove
 5. 2004 - E. Cagno, A. Di Giulio, F. Magalini, L. Tardini, P. Trucco - Il riciclaggio delle apparecchiature elettriche ed elettroniche di consumo: tecnologie, mercati di sbocco e materiali recuperati - L'industria meccanica - n° 600 Ottobre 2004 - pp. 42-49
 6. 2004 - E. Cagno, A. Di Giulio, F. Magalini, L. Tardini, P. Trucco - Pianificazione ottimizzata delle reti di recupero prodotti - Logistica Management - n° 144 Marzo 2004 - pp. 105-112
 7. 2004 - E. Cagno, A. Di Giulio, F. Magalini, L. Tardini, P. Trucco - Riciclaggio di elettrodomestici bianchi dismessi: prospettive di mercato e redditività - L'industria meccanica - n° 593 Febbraio 2004 - pp. 40-47
 1. 2014 F. Magalini - WEEE Generated & Flows in various EU Countries: Implications on Target Settings - WEEE Management in Bulgaria Round Table, Sofia, 25 November 2014
 2. 2014 F. Magalini - XIV Congreso Internacional Disposicion Final de Residuos y Perspectivas Ambientales, Pereira, 24-26 September 2014
 3. 2013 F. Magalini - Eighth ITU Symposium on ICTs, the Environment and Climate Change, Turin, 6 - 7 May 2013
 4. 2010 - F. Magalini, ITU Conference on Climate Change - Electronic industry & e-waste recycling: an underestimated contribution to climate change mitigation strategies - Cairo, 2 - 3 November
 5. 2010 - F. Magalini, R. Khuer - Electronic industry & e-waste recycling: an underestimated contribution to climate change mitigation strategies - Care Innovation - Wien, 8 - 11 November
 6. 2008 - Nokia Corporate Stakeholder Day, Helsinki, 4 - 5 February
 7. 2007 - F. Magalini, J. Huisman - Management of WEEE and Cost Models across EU: Could the EPR principle lead US to a better environmental policy? - International Symposium on Electronics and the Environment - IEEE - Orlando, 7 - 10 May
 8. 2007 - J. Huisman, F. Magalini - Where are WEEE now? Lessons from WEEE: will EPR work for the US? - International Symposium on Electronics and the Environment - IEEE - Orlando, 7 - 10 May
 9. 2006 - F. Magalini, J. Huisman, A. Stevels, T. Marinelli - The Implementation of WEEE Directive: present status and future options for development and simplification - Care Innovation - Wien, 13 - 16 November
 10. 2006 - J. Huisman, A. Stevels, F. Magalini - Where did WEEE go wrong in Europe? - E-Scrap Conference - E-scrapnews.com - Austin TX, 18 - 19 October
 11. 2006 - F. Magalini, J. Huisman - Compliance Key Factors of the EU Directive: How far is one from a full implementation? - International Symposium on Electronics and the Environment - IEEE - San Francisco, 8 - 11 May
 12. 2006 - J. Huisman, A. Stevels, T. Marinelli, F. Magalini - Where did WEEE go wrong in Europe? Practical and academic lessons for the US - International Symposium on Electronics and the Environment - IEEE - San Francisco, 8 - 11 May

**National
conferences (as
keynote or speaker)**

13. 2005 - E. Cagno, F. Magalini, G. Micheli, P. Trucco - Supporting Lean Production Through Waste Minimization: the Unseen Cost Issue - 18th International Conference on Production Research - Salerno, 1 - 4 August
14. 2004 - E. Cagno, F. Magalini, L. Tardini, P. Trucco - Effective planning of a product recovery network for electrical and electronic equipments - Enhancing Competitive Advantage through Supply-Chain Innovation - Logistics Research Network - Dublin, 9 - 10 September
15. 2004 - E. Cagno, F. Magalini, L. Tardini, P. Trucco - A life cycle and cost analysis for reverse logistics: the case of a reusable packaging system - Enhancing Competitive Advantage through Supply-Chain Innovation - Logistics Research Network - Dublin, 9 - 10 September
1. 2013 – F. Magalini – Direttiva RAEE 2.0: Sfide ed Opportunità all'Orizzonte – Ecomondo, Forum RAEE, Rimini, 8 November
2. 2012 – F. Magalini - Collection and tracking of WEEE: the latest trials to achieve the objectives of the new EU WEEE Directive – Fare i conti con l'ambiente rifiuti acqua ed energia – Ravenna, 26 September
3. 2011 – F. Magalini - Challenges in Rare Earths & Critical Metals Recovery from WEEE – Ecomondo – Rimini 11 November
4. 2008 - F. Magalini - La raccolta e il trattamento RAEE in Europa: spunti di riflessione per gli operatori italiani - EcoForum RAEE - San donato, 15 April
5. 2005 - E. Cagno, F. Magalini, M. Petrilli - L'utilizzo dei polimeri e il processo di raccolta del post-consumo: uno studio di settore. - XXXII Convegno Nazionale ANIMP - OICE - UAMI - Rimini, 6-7 October
6. 2004 - E. Cagno, A. Di Giulio, F. Magalini, L. Tardini, P. Trucco - Le reti di recupero prodotto: modellizzazione ed applicazione alle apparecchiature elettriche ed elettroniche dismesse - XXXI Convegno Nazionale ANIMP - OICE - UAMI - Monastier di Treviso, 14-15 October
7. 2003 - E. Cagno, A. Di Giulio, F. Magalini, L. Tardini, P. Trucco - Il trattamento industriale degli elettrodomestici bianchi a fine vita - XXX Convegno Nazionale ANIMP - OICE - UAMI – Rapallo, 30-31 October