

# Ecomondo 2026

03/04/05/06 November

## Legend

-  Agroecology and Bioenergy
-  Circular and Healthy Cities
-  Circular and Regenerative Bioeconomy
-  Education and Communication
-  Environmental Monitoring and Earth Observation
-  Financing
-  International Cooperation and Partnerships with Mediterranean and Africa
-  Policies and Regulatory Frameworks
-  Research and Innovative Start Up
-  Resource Efficiency and Circular Economy
-  Sites and Soil Maintenance and Restoration
-  Sustainable and Circular Textiles
-  Water Cycle and Blue Economy
-  Stati Generali della Green Economy

Tuesday 4  
November

09:30 - 17:30

Tiglio Room Hall A6

International  
Cooperation and  
Partnerships with  
Mediterranean and  
Africa  
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Technological solutions for resources recovery from end-of-life products and materials in the Mediterranean landscape

**Organized by: Comitato Tecnico Scientifico Ecomondo & Società Chimica Italiana -  
Divisione CABC, ISWA international, ATIA - ISWA**

Language:: English

Instant translations:: Italian

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A great amount of waste is still disposed of without any recovery, representing a loss of valuable materials. Technical obstacles are often the bottleneck that hinders the circularity of these resources. This loss results not only in an economic damage, but also in a socio-political weakness, because it could increase the dependence on primary raw materials provided by other Countries. Thus, it appears essential to implement new solutions, that are proposed by different research institutions and companies, and to share good practices among the Countries, particularly in the Mediterranean area, to drive the industrial growth in a more sustainable way.

In this seminar, new technologies that could increase the circularity of resources and the environmental benefits will be explored, in different economic sectors.

## Session Chairs

Fabrizio Passarini, Ecomondo STC and University of Bologna

Silvia Fiore, Turin Polytechnic University

Paola Muraro, ATIA - ISWA

## Program

9.30 Introduction by the Chairs

### *Invited lectures*

9.45-10.00 *Lost Opportunities? Winning back materials to drive the circular economy*

Vicki Hughes, Senior Vice President, CIWM - Chartered Institution of Waste Management

10.00-10.15 *From industrial organic residues to sustainable food plastics; the ViSS Horizon EU project*

Mariantonella Palermo, Tecnoalimenti S.C.p.A.

10.15-10.30 *Microwave-Assisted Depolymerization in Textile*

Maurizio Crippa, GR3N

### *Speeches selected from the Call for Papers*

*Topic: AI and ICT in waste treatment*

10.30-10.42 *AI-Powered Platform for Optimizing Used Battery Supply Chains: Transforming Fragmented Waste Streams into Circular Economy Resources*

Pogan Cristian, Pogan Otilia, CircularBucks, AI CORE srl

10.42-10.54 *Automation, Digitalisation, and Human-Centric Recycling: The Borsoi Model for Padded and Upholstered Textile Waste Regeneration*

Enrico Cozzoni, Borsoi S.r.l.

10.54-11.06 *AI-Based Visual Sorting of Construction and Demolition Waste – Improving Precision, Efficiency and Circularity in Real-World Conditions*

Georg Weingrill, Binder+Co AG

11.06-11.18 *GREEN3D – Advancing Circularity in the Mediterranean through Onsite 3D Printing with Recycled Materials*

Rocco Lagioia, Marc Michel - TheGreenTech

Topic: Recovery of Critical and Strategic Raw Materials

11.18-11.30 *Sustainable recovery of gold and copper from WEEE via a novel hydrometallurgical process*

Francesco Di Natale, Roberto Andreatti, Raffaele Marotta, Amedeo Lancia, Tullio Monetta, Roberto Chirone, Giuseppina Luciani, Alessandro Erto, Giuseppe Vitiello, Brigida Silvestri, Aniello Costantini, Marica Muscetta, Giuseppe Russo, Rossella Grappa, Virginia Venezia, Annalisa Acquesta, Pawan S. Dhapola, Antonio Di Colandrea, Luigi Piero Di Bonito, Arianna Parisi - Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale, Università di Napoli Federico II

11.30-11.42 *Innovative Pathways for Phosphorus Recovery from Urban Wastewater: GRUPPO CAP's Integrated Circular Approach*

Desdemona Oliva, Tomaso Amati - Gruppo CAP

11.42-11.54 *Beyond Waste: Technological Innovation in the Recovery of Strategic Metals for a Sustainable Industry*

Riccardo Momoli, Circular Materials srl

11.54-12.06 *BRAVE: Biotechnologies for the recovery of critical Raw materials from Vehicles*

Amato Alessia, Becci Alessandro, D'Arcangelo Matteo, Beolchini Francesca - Department of Life and Environmental Sciences, Università Politecnica delle Marche

12.06-12.18 *Recycling of electric motors for the recovery and valorization of NdFeB magnet content*

Leonardo Sparascio, Gianluca Torta, Daniele Cespi, Luca Ciacci, Ivano Vassura, Fabrizio Passarini - Department of Industrial Chemistry "Toso Montanari", Interdepartmental Centre of Industrial Research "Renewable Resources, Environment, Sea and Energy", Università of Bologna

Topic: Monitoring and removal of pollutants

12.18-12.30 *Drones and methane sensors: a new frontier for circularity of resources in landfills*

Giuseppe Tassielli<sup>1</sup>, Riccardo Beltramo<sup>2</sup>, Stefano Duglio<sup>2</sup>, Miriam Spalatro<sup>1</sup>, Lucianna Cananà<sup>3</sup> - <sup>1</sup>Department of Physics, University of Bari "Aldo Moro", Bari; <sup>2</sup>Department of Management "Valter Cantino", University of Turin, Turin; <sup>3</sup>Ionian Department of Law, Economics and Environment, University of Bari "Aldo Moro", Taranto

12.30-12.42 *Optimization of electrostatic separation of plastics from beached waste*

Brixhilda Lleshi, Stefania Facchini, Milvia Elena di Clemente, Francesco Todaro, Michele Notarnicola - Politecnico di Bari

12.42-12.54 *REVOCS, an efficient technology for VOCs removal*

Federico Capra, Marco Ferrari – Gruppo AB

Lunch Break

Topic: Polymers and biopolymers

14.00-14.12 *The new EU regime for recycled plastic food contact material - Changing the game?*  
Ken Huestebeck - Styrenics Circular Solutions (SCS) association

14.12-14.24 *Sustainable valorization of waste residues into new materials for different sector applications*

Maurizio Avella 1, Antonio De Falco 2 - 1 Agribiom srl, 2 Atiaiswa

14.24-14.36 *Pyrolysis of Lead Acid Battery (LAB) plastic waste: a route to hydrogen and halogen stabilization*

Maddalena Laghezza 1, Franco Berruti 1, Silvia Fiore 2, Virgilio Pagliarani 3, Martino Albini 3, Claudio Sandrone 4 - 1 Institute for Chemicals and Fuels from Alternative Resources (ICFAR), Chemical and Biochemical Engineering, University of Western Ontario, London, Canada; 2 Department of Environment, Land, and Infrastructure Engineering (DIATI), Politecnico di Torino; 3 Rovereta Srl, Rimini; 4 BAW Remediation Technologies Srl, Manta (Cuneo)

14.36-14.48 *Biopolymers recovered from wastewater treatment sludge: a valuable resource for circular bioeconomy and green chemistry*

Benedetta Pagliaccia\*, Mirko Severi\*\*, Claudio Lubello\*, Tommaso Lotti\* - \*Department of Civil and Environmental Engineering, University of Florence, Firenze (FI); \*\*Department of Chemistry "Ugo Schiff", University of Florence, Sesto Fiorentino (FI)

Topic: Textile and fiber valorization

14.48-15.00 *Optimization and experimental validation of hybrid non-woven insulations from textile waste: Reduction of thermal conductivity and U-value by combining mechanical needling and thermal bonding*

Mohamed EL Wazna 1, Nouredine Abouricha 2, Ayoub Gounni 3 - 1 Research Institute for Solar Energy and New Energies, Morocco; 2 LABSIPE, National School of Applied Sciences, Chouaib Doukkali University, El Jadida, Morocco; 3 Physics Department, Faculty of Sciences Ain Chock, Hassan II University, Casablanca, Morocco

15.00-15.12 *From fiber to fiber: Predicting future waste fiberboard volumes across Europe, and emerging solutions for wood fibers reutilization*

Stergios Adamopoulos 1, Mark Irle 2; Francesco Balducci 3, Omar Degoli 4, Alessandra Cecchini 5. - 1 Wood Science at Swedish University of Agricultural Sciences, 2 École Supérieure du Bois (ESB), 3 University of Camerino, 4 FederlegnoArredo, 5 Manifattura

Topic: Biowaste treatment

15.12-15.24 *Sustainable valorization of agro-industrial wastes into natural plant vaccines and biopesticides*

Vincenzo Lionetti, Department of Biology and Biotechnologies "Charles Darwin", Sapienza, University of Rome

15.24-15.36 *Closing the loop in agro-waste management: myco-valorization of digestate and grape pomace*

Veronica Zuffi<sup>1</sup>, Federico Puliga<sup>1</sup>, Dario Mercatante<sup>1</sup>, Alessandra Zambonelli<sup>1</sup>, Maria Teresa Rodriguez-Estrada<sup>1</sup>, Santiago Sanchez Cortes<sup>2</sup>, Ornella Francioso<sup>1</sup> - <sup>1</sup>Department of Agricultural and Food Sciences, University of Bologna, Viale G. Fanin 40-50, 40127 Bologna, Italy; <sup>2</sup> Instituto de Estructura de la Materia, Consejo Superior de Investigaciones Cientificas (IEM-CSIC), Serrano, 121, E-28006 Madrid, Spain.

15.36-15.48 *From Residue to Value: Chestnut Shells as Functional Biofillers in Compostable Composites*

1 Zamboni E., 2 Ribeiro N., 2 Moreira C., 2 Escórcio R., 1 Vannini M., 1 Sisti L., 2 Silva Pereira C., 1 Celli A. - 1 Università di Bologna, DICAM, via Umberto Terracini, 28, 40131, Bologna, Italy; 2 Universidade NOVA de Lisboa, ITQB, Av. Da República, 2780-257 Oeiras, Portugal

15.48-16.00 *Hazelnut waste valorization for the production of biostimulants*  
Giorgia Pellegrino(1-2), Paola Zitella(1), Elisa Aimò(1) - (1) Environment Park, via Livorno 60, 10144, Torino, Italy; (2) Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129, Torino, Italy

Topic: Other recovery processes

16.00-16.12 *FOZ: A Mobile Technology for Steelmaking Residue Recovery and Energy Efficiency in Melting Processes*  
Tommaso Carpaneto, Francesco Carpaneto – Foz srl

16.12-16.24 *Mild alkali activation: a strategy for valorization of WEEE glass and design of sustainable building materials*  
Emanuele De Rienzo (1), Francesco Carollo (2), Antonio D'Angelo (3), Luisa Barbieri (1), Enrico Bernardo (2), Michelina Catauro (3), Cristina Leonelli (1), Isabella Lancellotti (1) - (1): Department of Engineering "Enzo Ferrari" (DIEF), University of Modena and Reggio Emilia (UniMoRe), Modena; (2): Department of Industrial Engineering, University of Padova (UniPd), Padova; (3): Department of Engineering, University of Campania "Luigi Vanvitelli" (UniCaLV), Aversa

16.24-16.36 *The role of Waste-to-Energy in EU policies and the Mediterranean landscape*  
Paola Macculi - ESWET (The European Suppliers of Waste-to-Energy Technology)

16.36-16.48 *The last mile: how to sustainably and circularly manage non-recyclable waste from industrial processes*  
Antonella Luciano 1, Dalila Bonanno 2, Francesco Palmeri 3, Giuseppe Benina 3, Giuseppe Mancini 2 – 1 ENEA, 2 University of Catania, 3 Siram, Cisma Ambiente

16.48-17.00 *BTEX adsorption using activated hydrochar produced by hydrothermal carbonization of municipal solid waste*  
C. Caretti<sup>1</sup>, I. Ducci<sup>1</sup>, M. Puccini<sup>2</sup>, F. Barontini<sup>2</sup>, S. Dugheri<sup>3</sup>, R. Gori<sup>1</sup> - 1 Department of Civil and Environmental Engineering, University of Florence, Florence; 2 Department of Civil and Industrial Engineering, University of Pisa, Pisa; 3 Experimental and Clinical Medicine Department, University of Florence, Florence

17.00-17.30 Discussion and closure by the Chairs

**Poster Session**

**WT-P1** - *Estimation of the floating population in coastal areas through the analysis of the production of organic (OFMSW) and residual (MSW) municipal waste fractions: the case of Calabria*  
Ernesto Infusino \*, Vincenzo De Matteis\*\*, Francesco Petrone\*\*, Roberta Infusino\* - \* Università degli Studi della Calabria - Dipartimento Ingegneria dell'Ambiente, \*\* Autorità Rifiuti e Risorse Idriche della Calabria

**WT-P2** - *REWIND - Efficient Decommissioning, Repurposing and Recycling to increase the Circularity of end-of-life Wind Energy Systems*  
Michele Vavallo, Ciaotech - PNO, AIMPLAS, ALKE, BCIRCULAR, CompositePatch, DITF, HSPF, IPC, Miljøskærm, R-Nano, NTUA, Suez, Tekniker, TPI COMPOSITES, AEMAC

**WT-P3** - *Smart Nanomaterials for Clean Water: The Role of Calcium Ferrites in Multifunctional Wastewater Treatment*  
Maurizio Vespignani, Mauro Mazzocchi, Magda Blosi, Ilaria Zanoni, Simona Ortelli, Chiara Artusi, Sara Amadori, Anna Luisa Costa - ISSMC-CNR of Faenza, Italy; Matheus Henrique Pimentel Araújo, Juliana Cristina Tristão - Universidade Federal de Viçosa, Brazil; Milad Takhsa Ghahfarokhi - IMEM-CNR of Parma, Italy.

**WT-P4** - *K-Drip irrigation*  
Iliana Georgieva, Green industry innovations and technology transfer

**WT-P5** - *Treatment and recovery of Adsorbent Hygiene Products (AHPs) waste: the new Gesenu plant in Ponte Rio for the circular economy*  
Pera Massimo - Gesenu S.p.A.

**WT-P6** - *GreenLife4Seas project: a new LIFE for sediments and shells recovery and reuse*  
S. Doni<sup>1</sup>, E. Peruzzi<sup>1,2</sup>, C. Macci<sup>1,2</sup>, I. Rosellini<sup>1</sup>, M. Di Leo<sup>3</sup>, C. Vitone<sup>4</sup>, M. Mali<sup>4</sup>, R. Petti<sup>4</sup>, G. Masciandaro<sup>1,2</sup> - 1CNR-IRET, Via G. Moruzzi 1, 56124, Pisa, Italy, 2National Biodiversity Future Center, 90133 Palermo, Italy, 3CNR-IRSA, Via Roma 3, 74123 Taranto, Italy, 4Politecnico di Bari, Via E. Orabona 4, 70125, Bari, Italy.

**WT-P7** - *Computationally efficient particle detection algorithm for continuous operation of opto-magnetically sorting instrument*  
Alim Yolalmaz, Honglu Su, Rajeev Bheemireddy, Yongli Wu, Francesco Di Maio - Delft University of Technology, The Netherlands

**WT-P8** - *Recovery and valorisation of platinum from spent catalytic converters for sustainable hydrogen production via Aqueous Phase Reforming of raw glycerol*  
Francesco Di Natale, Giuseppina Luciani, Roberto Andreozzi, Tullio Monetta, Alessandro Erto, Marica Muscetta, Rossella Grappa, Virginia Venezia, Annalisa Acquesta, Antonio Di Colandrea, Luigi Piero Di Bonito, Arianna Parisi - Università di Napoli Federico II - Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale, Napoli; Giovanna Ruoppolo, Roberto Chirone, Alessandra Di Nardo, Gianluca Landi - Consiglio Nazionale delle Ricerche, Istituto di Scienze e Tecnologie per L'Energia e La Mobilità Sostenibili, Napoli.

**WT-P9** - *A novel technology of miner waste valorisation*  
Madani Zakaria, Taraa Chaimae - Coopérative of renewable Energy

**WT-P10** - *Turning waste into wealth: exciting first steps in vermicomposting haloponic sludge for sustainable biofertilizer production*  
Cristina Macci<sup>1</sup>, Giulia Carpi<sup>2</sup>, Marco Calcaprina<sup>2</sup>, Marco Mascherpa<sup>1</sup>, Davide Manzi<sup>1</sup>, Francesca Vannucchi<sup>1</sup> - 1Research Institute on Terrestrial Ecosystems (IRET), National Research Council of Italy (CNR), Pisa, Italy; 2Centro Lombricoltura, Toscana, San Giuliano Terme, Pisa, Italy

**WT-P11** - *Your Lowest-Value Waste Stream Could Be Your Biggest Circular Opportunity*  
Valentijn de Neve - BlueAlp

**WT-P12** - *Feasibility of Pilot Scale Thermoelectric Generator for Waste Heat Recovery in Industrial Enamel Ovens*  
Dilara Duman, De Angeli Prodotti s.r.l.

**WT-P13** - *Eco-Sustainable Photoluminescent Epoxy Composites Incorporating Etna Volcanic Ash as a Natural Waste for Decorative Building Applications*  
Luigi Madeo<sup>1</sup>; Anastasia Macario<sup>1</sup> and Pierantonio De Luca<sup>2</sup> - 1Dipartimento di Ingegneria per l'Ambiente, Università della Calabria, Arcavacata di Rende, CS, Italy; 2Dipartimento di Ingegneria Meccanica, Energetica e Gestionale, Università della Calabria, Arcavacata di Rende, CS, Italy

**WT-P14** - *Multiscale Computational Approach for Designing Sustainable Chitin-based Packaging Materials*  
Giulia Biffi, Siemens, Den Haag, Netherlands.

**WT-P15** - *Time-gated recycling of plastic with silicon quantum dots*  
Angelica Germinario - Sinbiosys SRL - University of Bologna

**WT-P16** - *The Recycling Trading Market: Proposal for a Digital Platform to Match Supply and Demand*  
Luca Provenzani, Almaviva S.p.A.

- WT-P17** - *Plasbreaker: a novel pyrolysis technology for mixed plastic waste recycling*  
Stefano Redaelli (a), Edoardo Vitto (b), Davide Alberti (b), Maria Correale (b), Flavio Manenti (a)  
- (a) Department of Chemistry, Materials and Chemical Engineering "Giulio Natta", Politecnico di Milano, Milan, Italy; (b) a2a S. p. A., Milan, Italy
- WT-P18** - *Bio-based chemical additives for sustainable high-RAP content asphalt concrete mixtures*  
Joseph Nicolas La Macchia, Loretta Venturini, Carlo Carpani, Orazio Baglieri<sup>1</sup> -  
1Department of Environmental, Land and Infrastructure Engineering, Politecnico di Torino;  
2Scientific Department, Iterchimica S.p.A.
- WT-P19** - *DISCOVERING ECOFOODCYCLE - Reducing Food Waste and its Environmental Footprint through Sustainable Food Systems*  
Maddalena Sartori, Chiara Onofri, Michele Milan - EcamRicert srl
- WT-P20** - *BioBIVE. BIOdegradable delivery systems for plant pathogens control of horticultural crops through Blo-actiVE*  
Carlos Barreiro Méndez - Research Institutes and Services Area, Universidad de León, Spain
- WT-P21** - *A High-Efficiency, High-Throughput System for Recycling Waste Electrical and Electronic Equipment via Magnetic Density Separation*  
Max van Beek, Hongli Su, Francesco Di Maio - TU Delft, The Netherlands
- WT-P22** - *Geopolymer-Based Inertization of Ceramic Exhausted Lime: A Sustainable Solution for Hazardous Industrial Waste*  
Antonio Stroschio, Francesco Genua, Isabella Lancellotti - Department of Engineering "Enzo Ferrari" - University of Modena and Reggio Emilia
- WT-P23** - *SCALECAP: Scaling Up the Production of Graphene-Metal Oxide Nanocomposites for Sustainable Supercapacitors*  
Pantaleone Bruni i, Vanessa Da Fermo i, Stefania Ferrari i, Andrea Di Filippo iii, Letizia Finamore ii, Alessandro Pietrodarchi ii, Sara Scutti ii, Mariacarla Di Muzio ii, Francesca Salerno ii, Francesca Susi ii, Massimo Ranieri ii - i Università degli Studi "G. d'Annunzio" Chieti-Pescara; ii ECO.LAN S.p.A., Lanciano (CH), Italy; iii HYGRANER S.R.L., Italy
- WT-P24** - *Valorisation of selected Poultry Manure through a sustainable aerobic fermentation: the AFRODITE® process and its effect on soil and plant nutrition*  
Elia Pagliarini<sup>1</sup>, Francesca Gaggia<sup>1</sup>, Clizia Franceschi<sup>2</sup>, Michele Rossin<sup>2</sup>, Diana Di Gioia<sup>1</sup> -  
1Department of Agricultural and Food Sciences (DISTAL), Alma Mater Studiorum-Università di Bologna, Bologna, Italy; 2FOMET S.p.A, Verona, Italy
- WT-P25** - *Life Cycle Assessment of Humic-like Substances and Green Analytical Materials for Sustainable Wastewater Treatment*  
Dimitrios Ziotas (1), Fabrizio Passarini (1), Daniele Cespi (1), Luca Ciacci (1), Antonio Arques (2), Gaia Mattarello (2), Vasilis Sakkas (3), Augusto Misolas (3) - (1) University of Bologna, Department of Industrial Chemistry "Toso Montanari", Bologna, Italy; (2) Grupo de Procesos de Oxidación Avanzada, Departamento de Ingeniería Textil y Papelera, Universitat Politècnica de València, Campus de Alcoy, Alcoy, Spain; (3) University of Ioannina, Ioannina, Greece
- WT-P26** - *Enzymatic hydrolysis of bioplastics as a scalable solution for circular management of bioplastic-rich organic waste streams*  
Marthinus W. Myburgh (a,b,c), Dominique F. Rocher (a,b,c), Leonardo Faggian (a,) Daniele Vezzini (a,b), Hannah L. Foster (b), Alessandro Calzavara (d), Lara Facchini (d,) Alessandra Lorenzetti (d), Marinda Viljoen-Bloom (b,c), and Lorenzo Favaro (a,b,c) - a Waste to Bioproducts-Lab, Department of Agronomy Food Natural resources Animals and Environment (DAFNAE), Padova University, Legnaro, Padova, Italy; b Department of Microbiology, Stellenbosch University, South Africa; c Urobo Biotech, Stellenbosch, South Africa; d Department of Industrial Engineering, Padova University, Padova, Italy

**WT-P27** - *From Invasive Threat to Green Opportunity: Harnessing Callinectes sapidus for Sustainable Chitosan-Based Bioplastics*

Farida Becir - Department of biology, Faculty of sciences of nature and life, Chedli Bendjedid El-Tarf University

**WT-P28** - *Advancing Blue Biorefinery Development in the Adriatic Sea (BIOBASED Project)*

Matteo Francavilla, Deborah Racca, Domenico Soldo, Paolo Marasco, Mauro Marone, Gianfranco Pazienza - STAR\*Facility Centre, Department of Agriculture, Food, Natural Resources and Engineering (DAFNE), University of Foggia, Foggia (Italy)

**WT-P29** - *Decommissioning circolare su impianti industriali upstream*

A. Forti , N. Farigu, D. Mazzone - PROGER S.P.A.

**WT-P30** - *Material flow analysis for sustainable strategies applied to the permanent magnet manufacturing: the European project PASSENGER*

Amato Alessia<sup>1</sup>, Becci Alessandro<sup>1</sup>, Innocenzi Valentina<sup>2</sup>, Villen-Guzman Maria<sup>3</sup>, Cerrillo-Gonzales Maria del Mar<sup>3</sup>, Vegliò Francesco<sup>2</sup>, Beolchini Francesca<sup>1</sup> - <sup>1</sup> Department of Life and Environmental Sciences, Università Politecnica delle Marche, Ancona, Italy; <sup>2</sup> Department of Industrial Engineering, Information and Economy University of L'Aquila, L'Aquila, Italy; <sup>3</sup> Department of Chemical Engineering, University of Malaga, Spain

**WT-P31** - *Closing the Loop: Advanced Granulation Systems for a New Era of Post-Consumer Plastics Recycling*

Giorgio Santella - C.M.G. Granulators

**WT-P32** - *Fishing for litter: a circular approach*

Punzo Elisa, Maria Chiara Catta - Punzo Elisa e Maria Chiara Catta - CNR-IRBIM; NBFC, National Biodiversity Future Center, Palermo

**WT-P33** - *Project to produce protein from black soldier fly larvae and recycle organic waste*

Benaissa Djaber - Tethmin start-up project

Tuesday 4

November

09:30 - 17:00

Agorà Fellini - Sites & Soil  
Restoration Area Hall C1

Sites and Soil  
Maintenance and  
Restoration

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Circular approach for the prevention and mitigation of landslide risk and hydraulic risk at different scales

**Organized by: Comitato Tecnico Scientifico Ecomondo & Associazione Geotecnica Italiana - Sezione AGI-IGS, CNR IRPI Istituto di Ricerca per la Protezione Idrogeologica**

Language:: Italian

**Open integration of methods, models, databases, laboratories, and technologies**

The development of advanced technologies and innovative tools to identify, characterize, prevent, and manage natural risks such as landslides, floods, and other hydrogeological events, at various scales are becoming an important issue, mainly because of the consequences and impacts of ongoing climate change. These should be strongly emphasized on benefiting rural and small communities that are often highly exposed to such risks.

With these objects, the Goal 1 and Goal 2 have been proposed within the Spoke 1 – “Circular technologies to mitigate geo-hydrological and forest fire risks”, that is one of the six Spokes of the Tech4You Innovation Ecosystem, funded by the Italian Ministry of University and Research through the Next Generation EU program. Globally, Tech4You focuses on creating innovative solutions to mitigate the impacts of climate change and enhance quality of life. In particular, the activities of Goal 1 “Technologies and Multi-Scale Tools for Landslide Risk Prevention” implement the construction and circular integration of multi-scale, interoperable, and updatable databases within demonstrators (on-site laboratories) equipped with advanced sensors and interdisciplinary digital platforms that support methodological approaches and the expert use of models for the generation and transfer of knowledge aimed at the quantitative assessment and sustainable management of landslide risk. The activities of Goal 2 “Models and Technologies for Hydraulic and Geo-Hydrological Risk Management” include climate services for better planning and management of hydrogeological risks, integrated modelling systems for flood monitoring, and advanced flood propagation models. Real-time forecasting systems, employing artificial intelligence and smartphone communication, enable the assessment of structural vulnerabilities during flood events.

All these resources of the two Goals can support decision-making for prevention strategies, contributing to improved territorial safety.

## **Program**

9.30 Registration

10.00 Introduction

Daniele Cazzuffi, CESI SpA, Milano and President AGI-IGS

Nicola Moraci, Mediterranean University of Reggio Calabria and Vice President AGI-IGS

Tommaso Moramarco, Director Research Institute for Geo-Hydrological Protection (IRPI), CNR

### **SESSION 1. *Technologies and innovative multi-scale tools for landslide risk prevention***

10.15 *Circular approach for sustainable landslide risk management: the FilTipiC platform*

Giovanni Gullà, CNR IRPI - Rende (CS)

11.00 *Multi-scale and interdisciplinary on-site laboratories as demonstration systems and knowledge generators in decision support for the management of landslide risk (adaptation, mitigation, reduction)*

Roberto Coscarelli, CNR IRPI - Rende (CS)

11.45 *Methods and tools for quantitative modelling of diffuse and local landslides, aiming at planning, scheduling and designing landslide risk adaptation, mitigation and reduction*

Nicola Moraci, Mediterranean University of Reggio Calabria

12.30 Discussion

### **SESSION 2. *Models and technologies for hydraulic and geo-hydrological risk management***

14.15 *Multi-scale early warning systems for hydrological and hydraulic risk management*

Domenico Desantis, CNR-IRPI, Cosenza

14.45 *Research, assessment and protection of strategic groundwater resources in the fissured aquifers of the Lucanian Apennines and the Calabrian Arc*

Francesco Sdao, Università della Basilicata - Potenza

Alberto Figoli, CNR

15.15 *Risk analysis and forecasting system for critical infrastructures*

Mario Maiolo, Università della Calabria – Rende (CS)

Gioia De Raffele, Università della Calabria – Rende (CS)

Aurelia Sole, Università della Basilicata – Potenza

15.45 *Instrumentation of mountain basins and construction of experimental plots for the study and monitoring of hydrological processes and for the dendrochronological reconstruction of flood events*

Giuseppe Bombino, Università Mediterranea di Reggio Calabria

16.15 *Drought risk monitoring, forecasting and management system*

Alfonso Senatore, Università della Calabria – Rende (CS)

16.45 Discussion

17.00 Concluding remarks

Daniele Cazzuffi, CESI SpA, Milano

Nicola Moraci, Mediterranean University of Reggio Calabria

*Tuesday 4*

*November*

10:00 - 13:00

Agorà Malatesta -  
Environmental Monitoring  
Area Hall D7

**Environmental  
Monitoring and Earth  
Observation**  
[Click here](#)

Indoor air quality: what risks?

**Organized by: Comitato Tecnico Scientifico Ecomondo & Istituto Superiore di Sanità**

Language:: Italian

> Go to the conference posters <

The purpose of this conference is to present the latest news on short- and long-term plans and programmes (WHO, EU, National), on the best strategies, on training activities, on field monitoring and on indoor air quality-IAQ assessments, in order to identify actions to reduce the exposure of the population and workers.

### **Session Chairs**

Gaetano Settimo, Italian National Institute of Health

Gianluigi de Gennaro, University of Bari

### **Program**

10.00-10.10 Introduction by the Chairs

10.10-10.15 *Indoor air quality in the Complementary National Plan PNC*

Francesca Ravaioli, Italian Ministry of Health

10.15-10.30 *Air Quality Directive. The path towards a comprehensive vision of indoor and outdoor air quality governance*

Fabio Romeo, Italian Ministry of Environment and Energy Security

10.30-10.40 *New reports from the ISS Indoor Pollution Study Group for the development of a National Strategic Plan*

Gaetano Settimo, Italian National Institute of Health

### **Speeches selected from the Call for Papers**

10.40-10.50 *Project necessARIA: experiences in the design and installation of mechanical ventilation systems in existing school buildings*

Clara Peretti, Luca Verdi, Gianmaria Fulici - Autonomous Province of Bolzano; Samantha Di Loreto, Sergio Montelpare - University of Chieti-Pescara G. d'Annunzio; Giuseppina Caggiano, University of Bari Aldo Moro; Umberto Moscato, Raimondo Leone - Cattolica University of Rome; Costanzo Di Perna, Polytechnic University of Marche

10.50-11.00 *CFD analysis for the assessment of respiratory comfort in a primary school environment*

Alessandro D'Ausilio, ARIANET srl

Omar Shatarat, Valentina Lazzara, Velia Malizia, Pietro Alfano, Stefania La Grutta - National Research Council (CNR), Palermo Research Area

11.00-11.10 *Yearlong monitoring of Indoor Air Quality in classrooms: effects of an advanced ventilation system*

Francesco Lolli, Chiara Forgione, Antonio Maria Coruzzolo, Rita Gamberini - Department of Sciences and Methods for Engineering, University of Modena and Reggio Emilia; Roberto Adani, Stefano Lolli - Torreggiani Spa; Francesco Suriano, Francesco Marucci, Geremia Avellini, Francesco Riminucci - PROAMBIENTE Srl - Bologna Technopole, National Research Council (CNR)

11.10-11.20 *Evidence Driven Indoor Air Quality Improvement (EDIAQI): a Horizon project aimed at enhancing the understanding of Indoor Air Quality*

Ivan Notardonato, Department of Agriculture, Environment and Food, University of Molise; Alessandro Battaglia, LabService Analytica Srl; Piergiorgio Cipriano, Deda Next Srl; Roberto Musacchi, Higher Education Institute Giosuè Carducci; Mario Lovric, The Lisbon Council; Pasquale Avino, Department of Agriculture, Environment and Food, University of Molise and Institute of Atmospheric Pollution, National Research Council (CNR)

11.20-11.30 *Indoor Air Quality in French Museums: A Comprehensive Multi-Pollutant Assessment Bridging Conservation, Staff Protection, and Visitor Comfort*

Paolo Bruno, Deputy Managing Director at ISPIRA Group

11.30-11.40 *Indoor monitoring of museum environments: strategies for the conservation of collections and visitor wellbeing*

Patrizia Aversa, Carolina Innella, Giuseppe Marghella, Anna Marzo, Concetta Tripepi - ENEA, Department for Sustainability (SSPT)

11.40-11.50 *Indoor air quality in sports centres: an analysis of recent scientific evidence*

Elisabetta De Maio, Francesca De Maio, Giuliana Giardi, Arianna Lepore, Silvia Brini - Institute for Environmental Protection and Research (ISPRA)

11.50-12.00 *Airborne micro- and nanoplastics in indoor environments: analytical approaches and some preliminary results*

Lorenzo Palumbo, Claudia Campanale, Augusta Piccardi - Dept. of Environment & Health, National Institute of Health (ISS); Marcello De Rossi, Giordano Morelli - Laboratory of Industrial Hygiene ASL Viterbo; Jacopo La Nasa, Leonardo Barlucchi, Francesca Modugno - Department of Chemistry and Industrial Chemistry, University of Pisa

12.00-12.10 *Microplastics and Chemical Transport Indoors: A Hidden Threat to Air Quality*

Cristina Di Fiore, Institute for Environmental Protection and Research (ISPRA)

12.10-12.20 *Measurement of PFAS in indoor air and investigation of source materials*

Daniele Morosini, Eligio Sebastiani - SRA Instruments Spa; Hannah Calder, Laura Miles - Markes International Ltd

12.20-12.30 *Active House: an integrated approach to indoor comfort and indoor air quality in sustainable buildings*

Marco Cimini, Active House Italia; Lorenzo Di Francesco, VELUX Italia

12.30-12.40 *Aerobiological monitoring for the promotion of health and well-being*  
Alessandro Di Menno di Bucchianico, Silvia Brini, Anna Chiesura, Raffaella Gaddi - Institute for Environmental Protection and Research (ISPRA); Maria Antonia Brighetti, Denise De Franco, Alessandro Travaglini, Department of Biology, University of Rome Tor Vergata; VeBS Study Team

12.40-13.00 Discussion and closure by the Chairs

### **Poster Session**

1. *Confronto tra diverse soluzioni impiantistiche per il risanamento degli edifici dal radon e per la riduzione dei consumi energetici*

Clara Peretti, Freelance Consultant, Silvia Brini, Alessandro Di Menno di Bucchianico, Institute for Environmental Protection and Research (ISPRA)

2. *Qualità dell'aria indoor: misurare, progettare, gestire. Un approccio integrato per edifici più sani e sostenibili*

Francesco Rossi, Digital Energy Innovation Manager

3. *ENER: an AI-based system for indoor-air quality optimization in healthcare buildings*

Serafino Pietro, Cascella Davide, Conte Giovanni, Surico Michele, Iurilli Nicola, Chirico Massimiliano, Idea75 S.r.l., Cascella Giuseppe Leonardo, Polytechnic University of Bari

4. *Simplified real-time VOC Monitoring in air: a novel VUV PTR Ionization Reactor and Automated Instrument Performance Checks*

Spiro Jorga, Vasyl Yatsyna, Felipe Lopez-Hilfiker, Veronika Pospisilova, TOFWERK, Thun, Switzerland Daniela Peroni, SRA INSTRUMENTS SPA

5. *Evaluating Microplastic Pollution in Kitchen Air: A Contribution to Indoor Air Quality Research*

Fabiana Carriera, Cristina Di Fiore, Alessia Iannone, Department of Agricultural, Environmental and Food Sciences (DiAAA), University of Molise, Gaetano Settimo, Environment and Health Department, Italian National Institute of Health Pasquale Avino, Institute of Atmospheric Pollution Research, Division of Rome, c/o Ministry of Environment and Energy Security

6. *AlleRAD, anche la moquette diventa alleata della qualità dell'aria indoor*

Simona Franchina, Radici Pietro Industries & Brands Spa

7. *Radon: le attività in regione Campania*

Adriano Pistilli, Technical Manager for Waste Management – Freelance Consultant

8. *New Directive, new demands: monitoring UFP, PM10 & PM2.5, NH<sub>3</sub>, CH<sub>4</sub> & more*

Markus Pesch, Gerhard Steiner, Pompilia Sopco, Abbad Cheik, Ken RobertS, Ahmad Lahib, grimm, durag

9. *Carbonio aerodisperso e salute nei luoghi di lavoro: evidenze dal progetto CALIPSO*

Paolo Brotto, Lorenzo Caponi, Silvia G. Danelli, Matilde De Camillis, Matteo Santostefano, PM TEN Srl, Francesca Tarchino SIGE Srl, Alberto Sorrentino BEES Srl, University of Genoa DIMA

10. *Reduction of polluting emissions into the atmosphere by construction a cold ironing plant at the ENI oil pier- Taranto Port*

Gaetano Internò, Gabriella De Santis, Fausto Koronica, Engineering Directorate, Ionian Sea Port System Authority, Port of Taranto

Tuesday 4  
November

10:00 - 13:00

Agorà Tiberio - Water  
Cycle Area Hall D8

International  
Cooperation and  
Partnerships with  
Mediterranean and  
Africa  
[Click here](#)

European and Mediterranean nature-based, digital and cyber-physical initiatives projects to innovate water management - Session 1

**Organized by: Ecomondo STC & European Commission, Utilitalia, IRSA-CNR (Water Research Institute), Marche Polytechnic University, ISPRA, WATER4ALL, Water Europe**

Language:: English

> [Go to the conference posters](#) <

### Innovative case studies selected from Call for Papers

Water is a critical resource facing increasing pressure due to climate change, urbanization, and growing demands from agriculture and industry. To address these challenges, Europe and the Mediterranean region have been pioneering digital and cyber-physical initiatives to modernize water management. These projects leverage cutting-edge technologies such as the Internet of Things (IoT), artificial intelligence (AI), big data analytics, and digital twins to enhance efficiency, sustainability, and resilience in water systems, which is upgraded by nature-based solutions.

This workshop explores key European and Mediterranean initiatives that integrate nature based, digital and/or cyber-physical solutions to improve water management. It highlights innovative projects, their technological approaches, and their impact on water conservation, quality monitoring, distribution networks, treatment systems and circularity. By fostering collaboration between governments, research institutions, and industry, these initiatives are driving a digital and physical transformation in water management, ensuring long-term sustainability and resilience in the face of global water challenges.

### Session Chairs

Francesco Fatone, Ecomondo STC  
Claudia Topalli, Ecomondo STC and Water Europe  
Daniele Barbone, Utilitalia

### Program

9.45-10.00 Introduction by the Chairs

10.00-10.12 *Smart Water Leak Detection: predictive technologies for the sustainable and intelligent management of water networks in a major water utility in Southern Italy*  
Franco Dalbosco, Giovanni Dalbosco - Hydroskop Srl

10.12-10.24 *Piattaforma integrata data-driven per il monitoraggio e controllo delle perdite idriche: manutenzione predittiva e priorità di intervento nelle reti acquedottistiche*  
Alessandro Bettin, Engineering Manager, Almagora Bluebit SpA, IWA Intermittent Water Supply specialist group management committee  
Ernesto Lastres, CTO, Sistemi Territoriali Srl

10.24-10.36 *Innovazioni e sistemi cyberfisici per il servizio idrico integrato*  
Luca Berardi, Aquanexa

10.36-10.48 *Predictive Water Infrastructure Management through Machine Learning and GIS: The Gruppo CAP Project*  
Francesca Mastromarino, Cecilia Paris, Gloria Salinetti - Gruppo CAP

10.48-11.00 *Digitalizzazione integrata per l'efficienza della rete idrica: l'esperienza Xylem Vue con Publiacqua*

Marcello Di Vincenzo, Head of Business Development and Partnerships - Xylem Italia  
Claudia La Verghetta, Client Solutions Architect - Xylem Italia

11.00-11.12 *Harnessing Digital Twin Technology for reducing N<sub>2</sub>O Emissions & Optimized Wastewater Treatment*

David Rutowski, Aquatic Informatics

11.12-11.24 *PRIN "N4En" – Integrating innovative N-removing biofilm processes and excess sludge valorization technologies for the development of energy- and material-efficient wastewater treatment plants*

Tommaso Lotti, Università degli Studi di Firenze  
Matteo Ramazzotti, Università degli Studi di Firenze  
Annalaura Eusebi, Università Politecnica delle Marche  
Stefano Papirio, Università degli Studi di Napoli Federico II

11.24-11.36 *Urban M2O – Soluzioni efficaci di monitoraggio e modellazione per una gestione olistica e basata sui dati della qualità dell'acqua urbana*

Alessia Danese, Carlo Pesce, Raffaele Marciano - Piave Servizi SpA

11.36-11.48 *The DISCOV.ER digital twin: water management to preserve biodiversity in the Po Delta*  
*Gianni Tumedei, University of Bologna*

Elio Amadori, RomagnaTech  
Catia Prandi, University of Bologna

11.48-12.00 *You Can Only Control What You Measure: Effective Online Monitoring of Biological and Chemical Oxygen Demand (BOD & COD) in Wastewater Treatment Process*

Robert Menegotto, Founder & CEO, MANTECH

12.00-12.12 *Implementation of an innovative approach to achieve the objectives of environmental protection and quality of the urban drainage system through the application of the principle of hydraulic invariance*

Chiara Cosco, Alfa Srl

12.12-12.24 *A Digital Twin Approach to Enhancing Water Infrastructure Management: The Case of Consorzio di Bonifica 3 Medio Valdarno*

Elisabetta Giusti, Consorzio di Bonifica 3 Medio Valdarno

12.24-12.36 *Digitalization and cyber-physical systems in the EU funded PRIMA SURE-NEXUS project*  
Niccolo Ciuccoli, Maria Grazia Chieti and Virginia Barros, Università Politecnica delle Marche

12.36-12.48 *Toward efficient storm surge forecasting: bridging machine learning and dynamical modeling approaches*

Lorenzo Mentaschi (1,2), Jacopo Alessandri (1,2), Paula Camus (3), Andrea Mazzino (4,5), Francesco Ferrari (4,5), Ivan Federico (6), Michalis Vousdoukas (7), Massimo Tondello (8), Giovanni Coppini (6), and Lorenzo Mentaschi (1,2,6) - 1. Department of Physics and Astronomy, University of Bologna 2. Interdepartmental Research Centre for Environmental Sciences, University of Bologna 3. Departamento de Ciencias y Técnicas del Agua y del Medio Ambiente, University of Cantabria 4. Department of Civil, Chemical and Environmental Engineering, University of Genoa 5. Istituto Nazionale di Fisica Nucleare, Sezione di Genova 6. CMCC Foundation – Euro-Mediterranean Center on Climate Change, Lecce 7.- Department of Marine Sciences, University of the Aegean, Mitilene, Greece, 8. HS Marine Srl

12.48-13.00 *Impact and Sustainability Assessments of Vitriified Clay Pipes: Environmental Indicators and Case Studies*

Dieter Schreurs, Steinzeug Keramo NV

Lorenzo Vidus Rosin, Società del Gres S.p.A. - Gruppo Steinzeug-Keramo

Anna Laura Eusebi, Marche Polytechnic University

Giovanna Darvini, Marche Polytechnic University

Elisa Blumenthal, Marche Polytechnic University

13.00-13.15 Summary of the digital posters

**Poster Session**

**1. Sviluppo e Certificazione di un Sistema di Gestione della Qualità ISO 9001 per il Blantyre Water Board (Malawi)**

Nicola Bertolini, Business Development Manager, ambiente

**2. Remote Sensing-Based Water Quality Monitoring as a Cyber-Physical Innovation for Climate-Resilient Water Management**

Christoph Deller, EOMAP GmbH & Co. KG, a Fugro Company

**3. Water Stewardship: leveraging disclosure for enhanced risk management and continuous corporate improvements according to the CSRD**

Daniela Casses Franceschi (a), Francesca Casale (b), Emiliano Micalizio (b), Domenico Fracchiolla (b), Giada Restuccia (b), Roberta Salvetti (b) - (a) Bolton (b) Ramboll

**4. Policy Implications of Citizen Science towards Sustainable Development Goals (SDGs): the example of CITYBLE**

Asia Guerreschi 1, 2 and Davide Antonioli 1, 2 | 1 Department of Economics and Management, University of Ferrara - 2 SEEDS, Department of Economics and Management, University of Ferrara

**5. Acqua, Terra, Aria: l'approccio integrato all'efficienza energetica**

Cefla sc (TBD)

**6. Integrating Wave Dynamics and Dune Stability in Coastal Flood Models: A Step Toward Digital Twin Systems**

Italo dos Reis Lopes<sup>1,2</sup>, Lorenzo Mentaschi<sup>1,2</sup>, Ivan Federico<sup>2</sup>, Salvatore Causio<sup>2</sup>, Michalis Voutsoukas<sup>3</sup>, Luisa Perini<sup>4</sup>, Giovanni Coppini<sup>2</sup>, Nadia Pinardi<sup>1,2</sup> - 1 Department of Physics and Astronomy "Augusto Righi" (DIFA), Alma Mater Studiorum Università di Bologna, Bologna (Italia)

2 Centro euro-Mediterraneo sui Cambiamenti Climatici (CMCC), 3 European Commission, Joint Research Centre, 4 Servizio Geologico, Sismico e dei Suoli, Regione Emilia-Romagna

**7. Optimization for AOP in drinking water for maximum micropollutant removal and minimal bromate formation, using Computational Fluid Dynamics simulation and chemical kinetics as optimization and validation tool**

J. Ianes<sup>1</sup>, G. Bellandi<sup>1</sup>, L. Verdickt<sup>2</sup>, P. Cauwenberg<sup>2</sup>, P. Vlasschaert<sup>1</sup>, R. Muoio<sup>1</sup>, U. Rehman<sup>1</sup>, Wim Audenaert<sup>1</sup> - 1 AM-Team, Advanced Modelling for Process Optimisation, Dendermondsesteenweg 48/1 9000 Ghent, Belgium

**8. Caratterizzazione dei corpi idrici sotterranei sottesi all'area del massiccio Campo dei Fiori**

Bordonaro Sara, Tixi Luciana

**9. PAR-TY-CO (Particle Technology Cooperation): Development of an online platform for institutions dealing with particle-based systems**

Sascha Gell, Martin Pillei, Barbara Messner, Thomas Senfter (MCI, Innsbruck, Austria), Christian Ebner (University of Innsbruck, Innsbruck, Austria), Andreas Gronauer (Free University of Bolzano, Bolzano, Italy)

**10. Exploring a sustainable solid transport management strategy at local level**

Leonardo Mita 1,2, Andrea Doria 2, Francesco Godano 2 and Gennaro Ranieri 2,3

1 Università degli studi della Basilicata, Dipartimento per l'Innovazione Umanistica, Scientifica e Sociale (DiUSS), Matera, Italy

2 Commissario di Governo per il contrasto del dissesto idrogeologico nella regione Puglia, Bari (Italy)

3 Dipartimento di Ingegneria Civile, Ambientale, del Territorio, Edile e di Chimica (DICATECh), Politecnico di Bari (Italy)

*Tuesday 4  
November*

11:15 - 13:00

Neri Room South Hall

**States General of the  
Green Economy**

[Click here](#)

Opening plenary session - Green economy: driving the future in times of uncertainties

**Organized by: Consiglio Nazionale della Green Economy**

Language:: Italian

**Program**

Moderator:

Francesca Gambarini, Journalist, L'Economia, Corriere della Sera

*Welcome*

Maurizio Ermeti, President, Italian Exhibition Group

*Institutional welcome*

Irene Priolo, Councillor for Environment, Spatial Planning, Mobility and Transport, Infrastructure, Emilia-Romagna Region

*Opening remarks*

Gilberto Pichetto Fratin, Minister of Environment and Energy Security (video message)

THE GREEN ECONOMY IN EUROPE AND ITALY: GOOD REASONS NOT TO BACKTRACK

*Presentation of the Report on the State of the Green Economy 2025*

Edo Ronchi, President, Fondazione per lo sviluppo sostenibile

The **2025 Report** will provide an updated overview of key strategic themes in the green economy: renewable energy transition, energy efficiency, circular economy, regenerative bioeconomy and organic agriculture, restoration of natural capital, and sustainable mobility. It will also offer a reflection on the **European green economy** in the new global context marked by increasing geopolitical tensions and heightened competition, including the **tariff policies** introduced by President Trump. In this scenario, the European Union, despite necessary adjustments, should firmly maintain its course toward an unavoidable **transition** to a green economy - decarbonized, circular, and regenerative of natural capital - for both sustainability and economic competitiveness.

Panel discussion:

Paolo Gentiloni, Co-Chair, UN Task Force on Debt Crisis

Lucrezia Reichlin, Professor of Economics, London Business School

Tuesday 4  
November

14:00 - 16:00

Agorà Augusto -  
Bioeconomy Area Hall D1

Agroecology and  
Bioenergy  
[Click here](#)

From agriculture to agriculture: bioeconomy solutions for sustainable farming

**Organized by: Comitato Tecnico Scientifico Ecomondo & Coldiretti, Novamont, Re Soil Foundation**

Language:: Italian

Bioeconomy products and applications, other than being derived from vegetable raw materials, are often strictly connected with agriculture in their final use. A key example is provided by biodegradable in soil mulch films (according to standard EN17033), that can be used for farming as an alternative of conventional mulch films. They provide the same advantages in terms of crop protection and input reduction, but they can be left in soil after use, being biodegraded by microorganisms that naturally live in the ground. These products, that since 2024 are considered as inorganic soil improvers by the EU Fertilizing Product Regulations, find application in several cultivations, also for crops that are not mulched with conventional films. Another example is given by phytosanitary products from pelargonic acid, vegetable-based alternatives of conventional phytosanitary products, that do not accumulate in the environment. The event will provide different case studies of their application.

### Session Chairs

Michele Falce, Head of Agricultural Production & Services Area, Novamont  
Roberto Mazzei, Head of Innovation AKIS Coldiretti, Coldiretti

### Program

Introduction by the Chairs

*Legislative framework promoting biodegradable plastics in agriculture and their effects on soil fertility*

Claudio Marzadori, University of Bologna

*Test fields of biodegradable mulch films: case study on tomato*

Domenico Ronga, University of Salerno

*The use of biodegradable mulch films: case study on watermelon and asparagus*

Sandro Colombi, Azienda Agricola Bologna Miriam

*The use of biodegradable mulch films: case study on zucchini and aromatic plants*

Massimiliano Minotti, Agribologna

*Machineries for the efficient application of biodegradable mulch films*

Alberto Forigo, Forigo Roter Italia

*The application of phytosanitary products from pelargonic acid: case study on Hazelnut*

Felix Niedermayr, Head of Agricultural Center of Competence, Loacker

*The application of phytosanitary products from pelargonic acid: case study on Tobacco*

Alberto Mantovanelli, President OPIT

*Innovative biodegradable and compostable solutions for agriculture*

Beatrice Saglio, Application Development Technologist, Novamont

Discussion and closure by the Chairs

Tuesday 4  
November  
14:00 - 15:45

Area Forum CIB Hall D5

Agroecology and  
Bioenergy  
[Click here](#)

The need for dissemination and critical issues in accessing technologies in agriculture

**Organized by: Comitato Tecnico Scientifico Ecomondo & CIB**

Language:: Italian

The primary sector is called to respond to various challenges: providing quality food and producing it sustainably; addressing the need to reduce emissions and protect soil fertility; implementing the production and use of renewable sources; interacting with an increasing number of productive sectors.

At the same time, the primary sector needs measures that favor the path of agroecological transition. In this context, it is necessary to question how access to available technologies can be facilitated for the numerous Italian farms that are ready to take on the challenge. Over time, anaerobic digestion has proven to be a technology capable of driving the introduction of other innovative technologies in the agricultural business context.

The focus of the conference is to offer an in-depth analysis on the topic and respond to the questions and requests of the sector, proposing virtuous behaviors and best practices.

### Session Chair

Fabio Fava, President of Ecomondo STC

### Program

#### *Introduction*

Fabio Fava, President of Ecomondo STC

Piero Gattoni, President of CIB

Stefano Bonaccini, Member of the European Parliament, Committee on Agriculture and Rural Development

#### *Measures supporting technological diffusion: between research and application*

Angelo Frascarelli, Università degli Studi di Perugia

Alberto Assirelli, Dirigente di ricerca CREA-IT

Michele Pisante, Università di Teramo

#### *Technological innovation and the needs of the agricultural world*

Dialogue between:

Gianmichele Passarini, Vice Presidente CIA

Nicola Gherardi, Componente Giunta Confagricoltura

Ettore Prandini, Presidente Coldiretti

#### *The actions of the Farming for Future project as a driver for business innovation*

Dialogue between:

Emilio Folli, Farming for Future Foundation

CIB Producer Members

Tuesday 4  
November  
14:00 - 16:00

Ravezzi 2 South Hall

Financing  
[Click here](#)

Managing climate risk: insurance products and obligations for companies

**Organized by: Comitato Tecnico Scientifico Ecomondo & Forum per la Finanza Sostenibile**

Language:: Italian

The effect of climate change is becoming increasingly severe on a global scale, with a significant economic and financial impact. According to data from the European Environment Agency (EEA), between 1980 and 2023, extreme weather events in the European Union caused an estimated €738 billion in economic losses, with over €162 billion (22%) occurring in the 2021-2023 period. In this context, climate risk is an ever-growing concern for businesses and investors, making it essential to implement insurance coverage to protect exposed companies. In Italy, with the 2024 Budget Law, legislators have introduced new mandatory insurance requirements for Italian businesses, set to take effect in April 2025. Insurance companies, for their part, are also stepping up efforts to develop tailored products for climate risks. According to recent data from ItaSIF, the integration of ESG factors into the insurance products of Italian insurance companies follows two main approaches: the provision of insurance products specifically focused on ESG themes, either for climate risk coverage (100%) or to promote insurance inclusion (65%), and restrictions on offering insurance products for activities exposed to high ESG risks (92%). The conference aims to provide an overview of the risks associated with the climate crisis, dedicated natural catastrophe (NatCat) insurance schemes, and regulatory developments at both the Italian and European levels.

### Session Chair

Francesco Biciato, Executive Director ItaSIF – Italian Sustainable Investment Forum

### Program

Moderator:

Emanuele Bompan, Director of Renewable Matter Magazine

14.00 Introduction by the Chair

14.10-14.30 Carlos Guiné, Head of Sustainability Horizontal Unit, EIOPA

14.30-14.50 Pietro Negri, Secretary general, AIBA

14.50-15.10 Isabel Reuss, Senior Climate and Social Advisor, ItaSIF

15.10-15.40 Ecomondo Companies

15.40 Discussion and closure by the Chair

*Tuesday 4  
November  
14:00 - 17:00*

Agorà Tiberio - Water  
Cycle Area Hall D8

**Policies and Regulatory  
Frameworks**  
[Click here](#)

Water regulation in Italy and the European Union: urban water cycle and beyond to respond to new challenges and directives

**Organized by: Comitato Tecnico Scientifico Ecomondo & REF, Acqua Pubblica Europea**

Language:: Italian

The evolution of water legislation in Italy and the European Union (EU) presents both opportunities and challenges for a sustainable regulatory framework on water. With the implementation of updated directives such as the Urban Waste Water Treatment Directive (UWWTD) or the Drinking Water Directive (DWD), as well as regulations on water reuse, policy makers, researchers, authorities, utility companies and sector stakeholders must navigate complex regulatory requirements, while addressing issues such as climate change, water scarcity, pollution control and the integration of the circular economy.

This workshop aims to provide a comprehensive overview of regulatory progress, economic and financial mechanisms supporting water sector compliance, and the future of water governance and public-private partnerships in Italy and the EU.

## Session Chair

Donato Berardi, Laboratorio REF

## Program

14.30 Welcome

Donato Berardi, Laboratorio REF

14.35-14.45 *Lessons from MTI-4 and updates for 2026-2029*

Samir Traini, Laboratorio REF

14.45-14.55 *The evolution of water utilities' mission within the framework of the European Water Resilience strategy: opportunities and challenges*

Milo Fiasconaro, Acqua Pubblica Europea (APE)

14.55-15.05 *How to finance investments in water services: lessons from the EU*

Milo Fiasconaro, Acqua Pubblica Europea (APE)

15.05-16.45 **Round table**

Moderator:

Donato Berardi, Laboratorio REF

Speakers:

Ester Benigni, Gruppo A2A

Maria Martocchia, Gruppo Acea

Luigi De Caro, Acquedotto Pugliese

Filippo De Simoi, Gruppo Hera

Alessandro Cecchi, Gruppo Iren

Lorenzo Persi, MM

Marco Pattano, Gruppo CAP

Andrea Lanuzza, Aquanexa

Francesca Menabuoni, Suez

Lorenzo Vidus Rosin, Steinzeug-Keramo

16.45-17.00 Final discussion and closing remarks

Maria Cristina Colorito, ARERA

*Tuesday 4*

*November*

14:00 - 16:45

Agorà Ariminum -  
Circular Economy Area  
Hall D1

**Resource Efficiency and  
Circular Economy**  
[Click here](#)

Circular economy best practice for WEEE, Waste Batteries and Packaging Waste: from policy development to industrial case studies

**Organized by: Comitato Tecnico Scientifico Ecomondo & ERION**

Language:: Italian

The current situation, both globally and in Europe, is guiding the electrical and electronic equipment sector towards strategies focused on the circular economy. The intention is to increase the amount of materials recovered from waste recycling, thereby promoting an increase in waste collection by both consumers and professional environments such as offices and industries. During the event, exemplary practices to improve waste management will be examined, discussing innovative solutions along the value chain of advanced technology products and the potential offered by new regulations, such as packaging regulations, battery regulations, the CRM Act, and the upcoming revision of the WEEE Directive. Initiatives relevant to three sectors connected to advanced technology products will be explored: electrical and electronic equipment, batteries and accumulators, and electronic product packaging.

## Session Chair

Luca Campadello, Erion

## Program

14.00-14.30 Introduction

*The regulations under discussion and the challenges for the household appliances sector*

Matteo Rambaldi, Senior Policy Director, Energy APPLIA

*The implementation of the Directive (UE) 2024/884: a sustainable model for the management of PV panels*

Nicolò Valle, Ref

*The JRC's support to the Battery Regulation*

Martina Orefice, JRC European Commission

14.30-15.00 *Regulations and circular economy models in the supply chains of WEEE, Waste Batteries and Packaging Waste*

Speakers:

Eva Maschietto, EMLEX

Fabrizio Longoni, CdCRAEE

Luca Tepsich, CdCNPA

Luca Stramare, CONAI (National Packaging Consortium)

15.00-16.00 *Solutions to improve the collection, preparation for reuse, and recycling of WEEE, Waste Batteries and Packaging Waste*

*T-COLLECT: new circular economy prospects for small WEEE*

Federico Rella, Vicepresident and Corporate Affairs Director of Logista Italia

*Robotic automation solutions for the circular economy*

Michele Pedretti, Market Development and Channel Manager, ABB Robotics Italia

Tomaso Manca, Head of Marketing Hiro Robotics Srl

*Circular economy solutions for batteries*

Federico Vitali, Vice President FIB

*The WEEE treatment plant in Terranuova Bracciolini*

Alfredo Rosini, CEO of Iren Ambiente Toscana

*Research and innovation projects: Circotronics project*

Claudia Romano, Circotronics

16.00-16.15 Discussion and closure by the Chairs

Tuesday 4  
November

14:00 - 18:00

Agorà Blue Economy Hall  
B7

Water Cycle and Blue  
Economy

[Click here](#)

Coastal regeneration as key driver for climate change adaptation

**Organized by: Comitato Tecnico Scientifico Ecomondo & Ministero dell'Ambiente e della Sicurezza Energetica, ISPRA, GNRAC, CPMR**

Language:: English

Instant translations:: English

Climate change threatens economic development globally, with distinct disparities in accelerating risks across regions as well as their capacities to adapt, in terms of socio-economic conditions, financing and technological solutions accessibility. Coastal communities and Maritime Regions are at the forefront of impacts driven by climate change and sea level rise. It is estimated that in Europe these impacts could generate by 2100 more than €800 Billion loss due to the potential economic impacts on its 271 Maritime Regions, especially vulnerable to climate change. The role of planning for the necessary adaptive regeneration of coastal cities and lidos, ports and natural areas, has become increasingly central to the future of coastal communities and their regions economies, environment and social aspects, as well as appropriate policies, funds and funding lines, scientific research & industrial applications able to support the great challenge of transforming territories to face climate change.

In order to take stock of progress and make a point on new opportunities, also in relation to the European Plan for Adaptation to Climate Change scheduled for spring 2026 and the discussion on the European Commission's proposal for the Multiannual Financial Framework 2028-2034, this year's event focuses on policies and governance for the adaptation of the territory at various levels. In particular, on the tools being implemented or new ones in preparation, and on the contribution that the scientific, industrial and stakeholder community can make in this process and for the adaptation of territories. The event, arranged in high-level round tables, is intended in giving examples, good practices and reflections on the extent to which the current system has the capacity to address appropriately the transformations that the climate change calls as necessary and which further steps should be envisaged to better address climate change on coastal areas, dealing also with regional disparities. To make the event leave its contribution along this process, the intention also is to come out with a "manifesto" providing suggestions on further steps that policies and planning instruments could do in further supporting and facilitating adaptive regeneration operations of the coastal zones.

### **Session Chairs**

Lorenzo Cappiotti, GNRAC  
Enzo Pranzini, University of Florence  
Giuseppe Sciacca, CPMR  
Roberto Montanari, Emilia-Romagna Region

### **Program**

14.00 Institutional welcome  
Francesco Corvaro, Government Special Envoy for Climate Change

14.15 Introduction by the chairs

14.30 First Round Table - ***State of play of key adaptation policies in coastal areas***

Moderator:  
Giuseppe Sciacca, CPMR

Speakers:

Simone Quatrini, European Commission JRC Project Officer-Scientific, Blue Economy and Sustainable Finance

Fabiana Baffo, Directorate General for Sustainable Use of Soil and Water - Ministry of Environment and Energy Security

Sergio Arjona, Deputy Minister of Sustainability and Environment - Junta de Andalucía

Marco Masi, Head of Sector of Water, Territory and Coast Protection - Tuscany Region

Massimo Sbriscia, Head of Sector of Energy, Waste, Quarries and Mines - Marche Region

Luca Salvetti, Major of Livorno Municipality

Anna Montini, Councilor of Ecologic Transition, Environment, Sustainable Development, Blue Economy - Rimini Municipality

14.30 First Q/A Round: *Advancements of adaptation policy instruments at the different levels*

15.00 Q/A with the audience

15.15 Second Q/A Round: *Way forward to enhance territorial adaptation policies across Europe*

15.45 Q/A with the audience

16.00 Second Round Table - ***Enhancing stakeholders' cooperation to foster adaptation***

Moderator:

Lorenzo Cappiotti, GNRAC

Speakers:

Giovanni Coppini, Director of the Strategic Program "Global Coasts as a New Frontier" at the CMCC Foundation - Euro-Mediterranean Center on Climate Change

Luca Sittoni, Project Manager DEME Group

Daria Povh Skugor, Director of PAP/RAC Split, United Nations Environment Program

Roberto Rando, Senior Climate Officer, European Investment Bank

Andrea Martinez, Deputy Director General and Advisory Lead Silnoc, Sistema iniziative locali SpA

16.00 First Q/A Round: *Advancements of adaptation policy instruments at the different levels*

16.30 Q/A with the audience

16.45 Second Q/A Round: *Way forward to enhance territorial adaptation policies across Europe*

17.15 Q/A with the audience

17.30 Wrap-up and closure by the Chairs

**Tuesday 4**

**November**

**14:00 - 15:30**

Agorà Flaminia - Sites &  
Soil Restoration Area Hall  
C1

**Resource Efficiency and  
Circular Economy**

[Click here](#)

Innovation as the key to sustainability in the construction sector and missed opportunities: presentation of the Quarrying Report 2025

**Organized by: Comitato Tecnico Scientifico Ecomondo & Legambiente**

Language:: Italian

Quarrying is a key sector for a country like Italy, because it involves important industrial sectors, such as construction, but also environmental aspects, land and landscape use and management. Establishing a sustainable connection between these two worlds, too often considered opposites, means addressing the needs of key sectors of the Italian economy, such as construction and infrastructure, sensitive issues such as environmental impact, and historical and cultural aspects related to the most renowned Made in Italy products worldwide.

A serious and decisive push towards the circular economy, still over-theorized and under-applied, cannot ignore the opportunities showed by materials recovery and recycling; just think of those countries where these processes are most advanced and how the extraction of quarry materials is being drastically reduced, while simultaneously boosting research and experimentation and, consequently, creating quality jobs.

### Session Chairs

Gabriele Nanni, Legambiente

### Program

14.00 Introduction by the Chairs (presentation of the *Quarrying Report*)

14.15 Speakers:

Lorenzo Bernardi, Fassa Bortolo

Edoardo Currà, AIPAI (Associazione Italiana per il Patrimonio Archeologico Industriale)

Paolo Barberi, Anpar (Associazione Nazionale Produttori Aggregati Riciclati)

Loretta Venturini, Iterchimica

Sergio Saporetti, Italian Ministry of Environment and Energy Security

15.30 Closure by Stefano Ciafani, Presidente Legambiente Nazionale

Tuesday 4  
November

14:00 - 14:30

Innovation Arena - South  
Hall

International  
Cooperation and  
Partnerships with  
Mediterranean and  
Africa

[Click here](#)

BlueMissionMed: Powering the EU Mission Ocean and Waters in the Mediterranean

**Organized by: Comitato Tecnico Scientifico Ecomondo & BlueMissionMed CSA Consortium, European Commission**

Language:: English

This high-energy opening session marks the official launch of the EU Mission Mediterranean Lighthouse yearly event within the EU Mission Restore our Ocean and Waters by 2030. The session will feature keynote interventions from the European Commission, the presentation of the BlueMissionMed Coordination and Support Action for the Mediterranean Lighthouse. It will set the tone for the week, celebrating Mediterranean cooperation and innovation while inviting all participants to engage with the Mission's goals. In this context, we will also honour the City of Rimini - a Mission partner and one of the key members of the Coalition of Cities, Regions, and Islands - for its strong commitment to sustainability and innovation. The session will conclude with a forward-looking call to action, highlighting how the Mediterranean Lighthouse contributes to shaping key European and regional policy frameworks, including the forthcoming European Ocean Pact and the New Mediterranean Pact, while presenting the main activities of the week that support their implementation.

### Program

Moderator:

Marianna Balfour, WWF Mediterranean

With the participation of:

Michele De Pascale, Presidente Regione Emilia-Romagna

Anna Montini, Assessore all'Ambiente del Comune di Rimini

Maria Cristina Pedicchio, Member of the Mission Board Ocean and Waters

Elisabetta Balzi, Active Senior, DG Research and Innovation, European Commission

Fedra Francocci, CNR DSSTTA, BlueMissionMed Coordinator

Tuesday 4  
November

14:30 - 16:00

Ocean Arena Hall B8

International  
Cooperation and  
Partnerships with  
Mediterranean and  
Africa  
[Click here](#)

European and Mediterranean nature-based, digital and cyber-physical initiatives projects to innovate water management - Session 2

**Organized by: Ecomondo STC & European Commission, Utilitalia, IRSA-CNR (Water Research Institute), Marche Polytechnic University, ISPRA, WATER4ALL, Water Europe**

Language:: English

[> Go to the conference posters <](#)

## What impact from EU-funded projects: the coordinators talk

### Sessions Chairs

Francesco Fatone, Ecomondo STC  
Simos Malamis, National Technical University of Athens  
Claudia Topalli, Water Europe

### Program

14.30-14.45 *Opening remarks*

14.45-15.00 *Water related projects DG RTD: impact assessment towards policy support*  
Bertrand Vallet, DG RTD European Commission

15.00-15.15 *WATER4ALL: alignment and impact assessment*  
Vittoria Laterza, ISPRA (Italian Institute for Environmental Protection and Research)

15.15-15.25 *Boosting Circular Systemic Solutions through Virtual Regional Circular Economy Spaces (CSS BOOST) for water-smart circular regions and cities*  
George Arampatzis, Project Coordinator

15.25-15.35 *Innovative solutions to prevent, reduce and remediate nutrient pollution along the land-river-sea system in the Mediterranean basin (SEACURE)*  
Maria Caldero, Project Coordinator

15.35-15.45 *Climate Adaptation and Resilience Demonstrated In the MEDiterranean region (CARDIMED)*  
Simos Malamis, Project Coordinator

15.45-15.55 *Electricity generation from dissipated energy in urban drinking water networks (LIFE TURBINES)*  
Teresa Oltra Benavent, Global Omnium – Project Coordinator

15.55 Closure by the Chairs

Tuesday 4  
November

15:00 - 17:30

Ravezzi 1 Room South  
Hall

International  
Cooperation and  
Partnerships with  
Mediterranean and  
Africa

[Click here](#)

## Boosting the implementation of the EU Mission Ocean and Waters: Tools, Strategies, Knowledge and Legacy for the Mediterranean Sea basin

**Organized by: Comitato Tecnico Scientifico Ecomondo & BlueMissionMed CSA, Commissione Europea, CNR, CPMR-IMC**

Language:: English

Instant translations:: Italian

This high-level session will gather key actors from across the Mediterranean to focus on one of the most strategic pillars of the EU Mission "Restore our Ocean and Waters by 2030": scaling up cooperation, building long-term legacy, and embedding sustainability at the core of regional action. Anchored in the achievements and lessons learned from recent years of mobilisation, the session - taking place within the MED Bootcamp - aims to chart the way forward for a resilient, connected and mission-driven Mediterranean community.

In this context, the event is an opportunity to discuss the cooperation of territories across the Mediterranean in support of the Mission Objectives, to set up institutional structures beyond the CSA support, and to position such cooperation within the broader policy Vision for the Mediterranean. A key focus will be on ensuring that these structures and collaborations are designed for long-term sustainability, enabling continued impact beyond the life span of individual projects.

Participants will explore how sectoral coordination, capacity-building, and cross-programme collaboration can be scaled to deliver tangible impact under the frameworks of the Mission Ocean and Waters, the EU Ocean Pact, The New Pact for the Mediterranean and the Barcelona Convention.

With high-level contributions from European Commission and regional leading organisations, today's session aims to lay the foundations for a resilient, connected, and forward-looking Mediterranean legacy. By integrating sustainability into every dimension of cooperation and innovation, this workshop seeks to foster a Mediterranean ecosystem that is not only mission-driven but also future-proof. Anchored in strong regional leadership and a shared commitment to ocean and water resilience, this event sets the stage for a connected, inclusive, and mission-driven Mediterranean future.

### Program

Moderators:

Fedra Francocci, CNR DSSTTA, BlueMissionMed Coordinator

Francesco Camonita, CPMR-IMC, BlueMissionMed Partner

15.00 *Building a Sustainable Mediterranean: EU Missions, Partnerships and Regional Cooperation*

Moderator:

Fedra Francocci, CNR DSSTTA, BlueMissionMed Coordinator

Speakers:

Philippe Tulkens, European Commission, Deputy Mission Manager for the EU Mission on Adaptation to Climate change (online)

Francesco Corvaro, Special Envoy for Climate Change, Italy

Angiolo Boncompagni, Senior Policy Officer - Ministry of University and Research (MUR), Italy

Giordano Giorgi, ISPRA - PNRR MER

15.20 *Transferability & Strategic Alignment: Potentials for inter-regional cooperation*

Moderator:

Fedra Francocci, CNR

Speakers:

Elisabetta Maini, Dirigente Area Ricerca Innovazioni Reti Europee della Regione Emilia-Romagna

Maria Loloni, Climate KIC, CO-Waters – Coalition of Waterfront Regions, Cities and Islands for the Mission Ocean and Waters

Maxime Bonnaud-Delamare, Region Sud

Irene Alonso Placer – Ecorys Senior Consultant - Policy & Research - The Circular Cities and Regions Initiative (CCRI)

H.E. Piotr Pniejnia-Olszyński, Consul, Advisor to the Political-Economic Office of the Polish Embassy in Italy

15.55 *Mediterranean Synergies: Cross-Fertilization for Scalable Innovation*

Spotlight session: *Cross-fertilisation Webinar*

Moderator:

Francesco Camonita, CPMR-IMC

Speakers:

Aldo Puleo INTERREG NEXT-MED: Mediterranean MultiProgramm Coordination Mechanism (online)

Barbara di Piazza, IPA Adrion Interreg IPA ADRION Programme

Silvia Comiati, Managing Authority of INTERREG ITALY-CROATIA

George Bugeja, XM Future Prima

Angiolo Boncompagni, MUR - Sustainable Blue Economy Partnership

Alessandro Daraio INTERREG EURO-MED: Dialogue4Innovation

16.30 *The Mission Shaping a shared Vision for the Mediterranean and Launch of the Mediterranean Blue Living Lab*

Moderators:

Fedra Francocci, CNR

Loic Blanchard, European Commission, DG RTD

*Closure roundtable*

Speakers:

Alessandra Sensi, Head of Sector Environment, Green and Blue Economy - Union for the Mediterranean

Rym Benzina President of La Saison Bleue Tunisia - Blue Africa Summit

Pinar Uygurer, Middle East Technical University, METU - Türkiye

Francesco Petracchini, CNR DSSTTA Director and Angiolo Boncompagni, MUR - Presentation of the Mediterranean Blue Living Lab Network

*Tuesday 4*

*November*

15:45 - 18:30

Diotallevi 2 Room South  
Hall

**Resource Efficiency and  
Circular Economy**

[Click here](#)

Plastic in the circular economy and in the packaging sector

**Organized by: Comitato Tecnico Scientifico Ecomondo & ISPRA**

Language:: Italian

Plastic plays a primary role in the circular economy, particularly in the packaging sector, as it is one of the most used materials for the protection, preservation and transport of goods. The massive growth of the production of single use products is not accompanied by a correspondent effective management system in terms of collection, selection and recycling. It is therefore necessary to ensure efficient and sustainable management of the entire supply chain in order to promote the low-carbon circular economy through eco-design strategies that guarantee greater durability, reusability, possibility of upgrading and repairability of products, greater use of recycled materials and greater recyclability when they reach the end of their life, with a consequent reduction in environmental impacts and waste production. In order to ensure the achievement of targets, products made of plastic materials should also be designed to maximize recycling, for example by reducing the presence of multiple polymers in the same product. Maximizing recycling also requires investments in new technologies, aimed at valorizing the fractions that are not currently recoverable, alongside those already consolidated. The definition of the national strategy on plastics can guarantee an effective path of technological innovation.

The day is an opportunity to discuss the measures implemented, the management methods and technologies available and future prospects, also in consideration of the evolution of European and national legislation.

### Session Chair

Valeria Frittelloni, Head of Department of Environmental Assessment, Monitoring and Sustainability, ISPRA

### Program

#### Speakers

Laura D'Aprile, Head of the Sustainable Development Department, Italian Ministry of Environment and Energy Security

Andrea Massimiliano Lanz, Head of National Centre for Waste and Circular Economy, ISPRA

Simona Fontana, Director General of CONAI

Vincenzo Lumia, Director of Federchimica-PlasticsEurope

Walter Regis, President of Assorimap

Massimo Centonze, President of Unionplast

Cristina Poggesi, Director of IPPR – Istituto per la Promozione delle Plastiche da Riciclo

Massimiliano Ubertini, General Coucilor Cisambiente Confindustria

*Tuesday 4*

*November*

**16:00 - 18:00**

Diotallevi 1 Room South  
Hall

**Financing**  
[Click here](#)

ESG CEO SUMMIT 2nd edition - Sustainable future between compliance and competitiveness

### Organized by: Ecomondo

Language:: Italian

In recent months, the debate on sustainability has undergone a profound transformation, marked by a growing greenlash that questions its urgency and effectiveness. In an increasingly unstable global context—commercially, energetically, and geopolitically—a new world order is emerging, characterized by deep divergences in approaches to the transition.

On one hand, skepticism fueled by conservative positions promotes a narrative that views sustainability as an obstacle to growth. On the other hand, Europe's choice to entrust regulation and finance with leading the change appears to have been met with a "cold shower" affecting all stakeholders involved. A pragmatic "reset" of environmental strategies is now more urgent than ever to resolve this Climate Paradox and counteract the regressive effect that policies promoted over the last five years have had on public consensus.

Within this uncertain landscape, the path towards climate neutrality—while remaining a central objective—is exposed to risks of delays and compromises. To reinvigorate the economy and sustainable competitiveness, the EU has adopted a Competitiveness Compass identifying innovation, decarbonization, and autonomy as the guiding principles for the European Commission's mandate over the next five years. A low-carbon economy can indeed reduce environmental impact while simultaneously generating employment, innovation, and industrial development. Simplification of reporting obligations, especially for SMEs, and increased public investment will be the levers through which Europe intends to capture this potential.

Reducing bureaucratic pressure allows businesses greater freedom to determine if and how to integrate sustainability into their operations, directing resources towards “clean” investments rather than merely complying with regulatory requirements.

The aim of this meeting is to explore, in light of the new geopolitical and economic scenario, the conditions for a just transition that strengthens—rather than hinders—the competitiveness of European companies in the global context.

## **Program**

15.30 Registration and Welcome Coffee

16.00 *Opening Remarks*

Corrado Arturo Peraboni, CEO Italian Exhibition Group

16.05 *Contextual Overview*

Carlo Cici, Partner and Head of Sustainability, TEHA The European House - Ambrosetti

16.20 *Sustainability and ESG: Rethink or relaunch? The response of individuals and companies to today's challenges*

Andrea Alemanno, Head of Public Affairs and Corporate Reputation Service Lines, Ipsos

16.35 **Roundtable Discussion**

Davide Abate, Chief Industrial Officer Ferrari

Adriano Alfani, CEO di Versalis (Eni) & Catia Bastioli, CEO Novamont

Gianluca Bufo, CEO Iren Group

Marco Codognola, CEO Itelyum

Alessandro Colombo, CEO di UNIDRO & SODAI

Orazio Iacono, CEO Hera Group

Renato Mazzoncini, CEO A2A Group

18.00 *Closing Remarks*

Wednesday 5  
November

10:00 - 13:00

Ravezzi 1 Room South  
Hall

Agroecology and  
Bioenergy  
[Click here](#)

Sustainable agri-food system and new European vision: economic growth, attractiveness and decarbonization

**Organized by: Comitato Tecnico Scientifico Ecomondo & Confagricoltura, ENEA, Federalimentare, Cl.uster A.grifood N.azionale CL.A.N.**

Language:: Italian

The conference aims to explore the challenges and opportunities for the European agri-food sector in the era of ecological and digital transitions. The meeting aims to highlight the fundamental role that agriculture, food production and the entire agri-food chain, in close dialogue with the research world, can play in achieving the objectives of economic growth, attractiveness and competitiveness, promoting decarbonization goals, in line with the new EU guidelines. In particular, it refers to the key factors necessary to ensure generational turnover, stability and attractiveness of the agri-food sector and the production of technologies essential to implement processes and paths that ensure a just transition towards climate neutrality.

Additionally, topics such as the integration between technological innovation and sustainability, the digitalization of the supply chain, emission reduction practices and the creation of a fair and inclusive food system, capable of ensuring food security and access to healthy and sustainable food, will be explored in depth.

## Program

10.00 Greetings and moderation

Daniele Rossi, Vice President of the National Agrifood Cluster

### 10.10 Session I - Speeches

*Strategic lines for competitiveness and sustainability*

Massimo Iannetta, Head of Sustainable Agri-food Systems Division at Enea and Vice President of the Scientific Technical Committee of the CL.A.N. Cluster

*A vision for agriculture and food*

Ricard Ramon, Head of Sustainability Unit - DG AGRI

*Research and Innovation for food systems*

Rosalinda Scalia, Deputy Head of Unit Bioeconomy & Food Systems - DG RTD

*Systemic changes for the agri-food system to address sustainable competitiveness*

Giulia Listorti, Team leader JRC - Joint Research Centre

### 11.10 Session II - Case studies

*Technological transformation of the agri-food chain*

Michele Costabile, LUISS-X.ITE

Speeches by:

Mauro Fontana, President of Mutti S.p.A.

Giovanni de Marco, President of OP Patto Pomodoro Piemonte

### 12.10 Session III - Round table

Introduction and moderation by:

Fabio Iraldo, Pro-Rector for Research Enhancement and Social Impact, Sant'Anna School of Advanced Studies

*Role of sustainability in integrated supply chain relationships*

Speakers:

Massimiliano Giansanti, President of Confagricoltura

Giangiaco Pierini, Vice President of Federalimentare

Raffaele Rinaldi, Central Director of ABI

Carlo Alberto Buttarelli, President of Federdistribuzione

*Wednesday 5*

*November*

10:00 - 13:00

Mimosa Room Hall B6

**Resource Efficiency and  
Circular Economy**

[Click here](#)

Industrial Symbiosis in the Twin Transition Era: A daily tool for systemic competitiveness, innovation and resource efficiency

**Organized by: Comitato Tecnico Scientifico Ecomondo & ENEA, SUN (Symbiosis Users Network)**

Language:: Italian

[> Go to the conference posters <](#)

The twin transition—ecological and digital—presents significant challenge that industrial symbiosis can effectively address by integrating both paradigms, which are reshaping the global industrial landscape. European and national policies, such as the European Green Deal, the Italian National Strategy for the Circular Economy, and the Draghi Report on revitalizing European industry, all emphasize the importance of creating a favourable environment for resource sharing and optimization of material and energy flows, leveraging technological innovation and investment support. The recent European Clean Industrial Deal provides further momentum, outlining urgent strategies to enhance the competitiveness of European industry against China and the United States while staying on course toward climate neutrality. The plan includes measures to secure access to competitively priced energy, decarbonize manufacturing, and incentivize investment in clean technologies, underscoring the critical role of industrial symbiosis in the transition to a more efficient and sustainable production model.

In this context, the 9th edition of the conference of the Italian Industrial Symbiosis network – Symbiosis Users Network (SUN) offers a value opportunity to explore tools, approaches, and case studies that can help integrate industrial symbiosis into strategies aimed at enhancing Italy's industrial system, making it more efficient, competitive and environmentally sustainable.

### **Session chairs**

Alessandra De Santis, [economycircolare.com](http://economycircolare.com)

Laura Cutaia, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) – SUN Symbiosis Users Network

### **Program**

10.00-10.10 Introduction by the Chairs

10.10-10.50 Invited speakers

Pietro Agrello, Italian Ministry of Environment and Energy Security

Marco Calabrò, Italian Ministry of enterprises and made in Italy

Maria Teresa Monteduro, Italian Ministry of economy and finance

Maria Sabrina De Gobbi, Italian International Labour Office

Claudio Perissinotti Bioni, UNI

10.50-12.10 **Speeches selected from the Call for Papers**

*La simbiosi industriale nelle megacostellazioni satellitari: un modello circolare per l'economia spaziale emergente*

Francesco Ventura, CROWN Group INC

*Smart Leaf – Dalla raccolta intelligente alla circolarità: investimenti sostenibili per le smart city del futuro*

Augusto Ferrentino, Smart Leaf S.r.l., SARIM S.r.l.

*CROSSTEX: Cross-sectoral Platform for Sustainable and Circular Textile*

Debora Giorgi<sup>1</sup>, Claudia Morea<sup>1</sup>, Luca Incrocci<sup>1</sup>, Matteo Bertelli<sup>1</sup>, Maria Rosa Pizzo<sup>2</sup>, Pierluca Cattaneo<sup>2</sup> - <sup>1</sup>Università degli Studi di Firenze, <sup>2</sup>Italtel S.p.A.

*Proposta di metodologia Diagnosi delle Risorse 2.0 e il modello di Eco-distretto Circolare*

Tiziana Beltrani, Anna Rita Ceddia, Daniela Claps, Laura Cutaia, Emanuela De Marco, Arianna Dominici Loprieno, Fabio Eboli, Martina Iorio, Marco La Monica, Erika Mancuso, Silvia Sbaffoni, Francesca Testella, ENEA

*A survey of industrial symbiosis practices and perceptions in the north-west regions of Italy*

Giulia Lippi<sup>1</sup>, Matteo Scacchi<sup>2</sup>, Ila Stefania Maltese<sup>2</sup>, Elena Maggi<sup>2</sup>; Enrica Vesce<sup>1</sup> - <sup>1</sup>Università degli Studi di Torino, <sup>2</sup>Università degli Studi dell'Insubria

*I progetti Nodes e Percival due esempi di incremento della competitività delle imprese Italiane fondate sulla simbiosi industriale*

Elisa Aimo Boot, Giorgia Pellegrino, Paola Zitella, Environment Park S.p.A.

*Mapping Industrial Symbiosis in the Textile Sector: A Data-Driven Network Analysis Using Gephi and R*

Reza Vahidzadeh, Marta Domini, Giorgio Bertanza, Università degli Studi di Brescia

*A case of industrial symbiosis for the circular and sustainable partial stabilization of hazardous waste*

Giuseppe Mancini<sup>1</sup>, Antonella Luciano<sup>2</sup>, Dalila Bonanno<sup>1</sup>, Francesco Palmeri<sup>3</sup>, Giuseppe Benina<sup>3</sup>, Debora Fino<sup>4</sup> - <sup>1</sup>Università degli Studi di Catania, <sup>2</sup>ENEA, <sup>3</sup>Siram, Cisma Ambiente S.p.A., <sup>4</sup>Politecnico di Torino

*Simbiosi industriale, SNEC in ottica di sostenibilità: ottimizzazione dei processi produttivi e fundraising per transizioni digitale e verde*

Giovanni Moccia, Antonio Moccia, Centro Studi di Ricerche Economiche e Sociali Mondì Sostenibili

12.10-12.55 **Pitch Case study**

Chairs: Tiziana Beltrani, Marco La Monica

*La simbiosi industriale può essere uno strumento di green marketing? Uno studio empirico su consumatori italiani*

Luca Fraccascia<sup>1</sup>, Rosa Maria Dangelico<sup>2</sup> - <sup>1</sup>Sapienza Università di Roma; <sup>2</sup>Politecnico di Bari

*La simbiosi industriale nel servizio di lava-noleggio di dispositivi tessili gestione dei rifiuti speciali in ambito ospedaliero*

Felicia Ilgrande, Vincenza Poliandri, Daniela Antonioni, Luca Montermini - Intercent-ER Regione Emilia-Romagna

*Business transition to industry symbiosis: the manager's perspective*

Joanna Kulczycka, Dagmara Lewicka, Monika Pec - Università della Scienza e della Tecnologia di Cracovia, Polonia

*Da blue a green utility: il percorso delle aziende di gruppo CAP*

Michele Falcone - Gruppo CAP

*Industrial and rural partnerships underpinned by biomass-based solutions for carbon removal, chemicals, and renewable energy — the NET-Fuels project*

D. Chiari<sup>1</sup>, R. Soldati<sup>1</sup>, S. Righi<sup>1</sup>, E. Balugani<sup>1</sup>, E. Pigni<sup>1</sup>, C. Groves<sup>2</sup>, Meiller M. <sup>2</sup>, K. Petela<sup>3</sup>, M. Proniewicz<sup>3</sup>, F. Dargam<sup>4</sup>, D. Molognoni<sup>5</sup>, M. V. Paredes<sup>5</sup>, D. Marazza<sup>1</sup> - <sup>1</sup>Alma Mater Studiorum Università di Bologna, <sup>2</sup>Fraunhofer Umsicht Sulzbach-Rosemberg, <sup>3</sup>Politecnico della Slesia, <sup>4</sup>Innovation GmbH REACH Innovation, <sup>5</sup>LEITAT Technological Center

*Developing industrial symbiosis networks: insights from southern Italy*

Gabriella Fiorentino, Amalia Zucaro, Marco La Monica, Tiziana Beltrani, Antonella Luciano, Emanuela De Marco, Laura Cutaia - ENEA

*SYMBA: Advancing Industrial Symbiosis for a Sustainable, Circular and Bio-based Europe*

Antonietta Pizza<sup>1</sup>, Marco de la Feld<sup>1</sup>, Mirko Busto<sup>1</sup>, Hector David Leiva Ñaupá<sup>2</sup>, Abdulaziz Aldureid<sup>3</sup>, Lucía González<sup>4</sup>, Erica Locatelli<sup>5</sup> - <sup>1</sup>ENCO, <sup>2</sup>CIRCE, <sup>3</sup>AIMPLAS, <sup>4</sup>CETAQUA, <sup>5</sup>SICLEI

*Il nuovo Science-Policy Panel su Sostanze Chimiche, Rifiuti e Inquinamento: percorso istitutivo e prospettive future*

Lucilla Baldassarri<sup>1</sup>, Diana Corradi<sup>2</sup>, Dario D'Angelo<sup>2</sup>, Simone Marzeddu<sup>3</sup>, Viola Pavoncello<sup>4</sup> - <sup>1</sup>Istituto Superiore di Sanità (ISS); <sup>2</sup>Ministero dell'Ambiente e della Sicurezza Energetica, <sup>3</sup>Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA), <sup>4</sup>Consiglio Nazionale delle Ricerche (CNR)

*Mitigating Critical Raw Materials Supply Risk: A Global Perspective from Automotive Suppliers*

Antonio Piepoli<sup>1</sup>, Roberta Pellegrino<sup>1</sup>, Francesco Arcidiacono<sup>2</sup>, Pierpaolo Pontrandolfo<sup>1</sup>, Florian Schupp<sup>3</sup> - <sup>1</sup>Politecnico di Bari, <sup>2</sup>Schaeffler Automotive Buehl & Co. KG; Università "Kore" di Enna, <sup>3</sup>Schaeffler Automotive Buehl & Co. KG; Constructor University di Brema GmbH

12.55-13.00 Conclusions

### **Sessione Poster**

Chairs: Marco La Monica, Francesca Testella

**SUN - P1** *Criteri ambientali minimi nella pubblica amministrazione: implementazione di un modello di sviluppo industriale sostenibile*

Adriano Pistilli<sup>1</sup>, Roberto Rana<sup>2</sup> - <sup>1</sup>Libero Professionista, <sup>2</sup>Università degli Studi di Foggia

**SUN - P2** *Manutenere e igienizzare: le nanotecnologie a servizio di una attività quotidiana e conservativa*

Beatrice Carolina Iaia, Biotitan Nanotechnology

**SUN - P3** *DIRAC - Innovativo paradigma per l'ottimizzazione energetica degli impianti di produzione e consumo dell'energia elettrica (fotovoltaici, cogeneratori, stazioni di ricarica veicoli elettrici, pubblica illuminazione, etc.) tramite Artificial Intelligence e Internet of Things*

Domenico Scarafile<sup>1</sup>, Pietro Serafino<sup>1</sup>, Davide Cascella<sup>1</sup>, Giovanni Conte<sup>1</sup>, Giuseppe Leonardo Cascella<sup>2</sup>, Andrea Polichetti<sup>3</sup> - <sup>1</sup>Idea75 S.r.l., <sup>2</sup>Politecnico di Bari, <sup>3</sup>Free Energy Saving S.r.l.

**SUN - P4** *Hydrogen-Powered Gensets for Electric Vehicle Charging*

Andrea Pivatello, Innio Jenbacher

**SUN - P5** *Valorisation of CO2 waste streams into polyester for a sustainable circular textile industry*

Luigi Ranza, PNO Innovation

**SUN - P6** *PYROCO2: Demonstrating sustainable value creation from industrial CO2 by its thermophilic microbial conversion into acetone*

Anna Franciosini, Patrizia Circelli - PNO Innovation

**SUN - P7** *ARISE: Ai-based medical swaRm learning prototype for SEcurity and analysis optimization on multicentric clinical data*

Domenico Scarafile<sup>1</sup>, Davide Cascella<sup>1</sup>, Giovanni Conte<sup>1</sup>, Massimiliano Chirico<sup>1</sup>, Giuseppe Leonardo Cascella<sup>2</sup>, Nicola Vernacchia<sup>3</sup>, Nadia Vernacchia<sup>3</sup> - 1Idea75 S.r.l., 2Politecnico di Bari, 3VET S.r.l.

**SUN - P8** *Tubino Rosso: Moda, Sostenibilità e Solidarietà*

Gian Nicola Specchio, AR2 Investment Be Change S.r.l.

**SUN - P9** *Drawing Sectoral Symbiotic Profiles: what resources to which sectors?*

Giulia Lippi, Enrica Vesce, Università degli Studi di Torino

**SUN - P10** *Models and Strategies for Environmental Emergency Response in a Seveso Framework*

Vitantonio Colucci, Romualdo Marrazzo - ISPRA

**SUN - P11** *MAterie CRItiche e NObili (MA.CRI.NO.)*

Michela Reale<sup>1</sup>, Nicola Bartucca<sup>2</sup> - 1Rinnovative S.r.l.; 2APEA Regionale Cartoneco Rete di Imprese Soggetto

**SUN - P12** *Modelli di business circolari e innovazione eco-industriale: il caso POREM nella filiera dell'agricoltura rigenerativa*

Marco La Monica<sup>1</sup>, Francesca Ceruti<sup>2</sup>, Alice Dall'Ara<sup>3</sup>, Alessandra Strafella<sup>1</sup>, 1ENEA, 2Università di Brescia, 3ADA S.r.l.s.

**SUN - P13** *MRA: Mutual Recognition Arrangement Pogramma nazionale contro il rischio di greenwashing*

Marta Tosetto, Carbon Footprint Italy S.r.l.

**SUN - P14** *Advancing circular construction through innovative bio-based material and digital product passport*

Matteo Giovanardi, Alessandro Pracucci, Levery S.r.l. Società Benefit

**SUN - P15** *Produzione di biometano con valorizzazione integrata della CO2*

Jessica Fabro, K-INN Tech S.r.l.

**SUN - P16** *People-Driven Digital Transformation in Circular Economy: Lessons from Alia Servizi Ambientali*

Domenico Scamardella, G. Roberto Marseglia, Sonny Masoni, Alberto Irace - Alia Servizi Ambientali S.p.A.

**SUN - P17** *Studio sull'applicazione della disciplina del sottoprodotto per la simbiosi industriale. La proposta Enea*

Erika Mancuso, Laura Cutaia, Daniela Claps, Martina Iorio - ENEA

**SUN - P18** *Dalla Valtiberina un'esperienza di sinergia tra aziende all'insegna della sostenibilità: il Consorzio ecoVprint*

Fabio Fantuzzi, Consorzio ecoVprint

**SUN - P19** *Transizione digitale e mobilità sostenibile: il caso studio SFBM S.p.A.*

Manuela Iapaolo, Università degli Studi Niccolò Cusano

**SUN - P20** *Dallo scarto siderurgico al cloruro ferrico: un'eccellenza circolare tutta italiana*

Davide Crippa, Altair Chemical S.r.l.

**SUN - P21** *Cooperatives and SMEs in the Twin Transition: A Comparative Analysis*

Ginevra Coletti<sup>1</sup>, Asia Guerreschi<sup>1</sup>, Emy Zecca<sup>1</sup> - 1Università degli Studi di Ferrara, 2Scuola Universitaria Superiore IUSS Pavia

**SUN - P22** *A circularity indicator in the construction sector*

Ottavio Spadaro<sup>1</sup>, Agata Matarazzo<sup>1</sup>, Massimo Costanzo<sup>1</sup>, Francesco Garraffo<sup>1</sup>, Mariusz Sołtysik<sup>2</sup> - 1Università di Catania, 2Università di economia di Cracovia, Polonia.

- SUN – P23** *Modellizzazione dinamica di sistemi circolari: stato dell'arte e prospettive applicative*  
Veronica Casolani, Alberto Simboli - Università degli Studi G. D'Annunzio Chieti-Pescara
- SUN – P24** *Valorizzazione degli scarti industriali: l'Autorizzazione Integrata Ambientale strumento per l'economia circolare in Regione Basilicata*  
Maria Carmela Bruno, Fiorella Messina - Regione Basilicata
- SUN – P25** *Energy transition in Sicily: the strategic role of green hydrogen between technological innovation and material circularity*  
Piero Guadagnino, Valentina Iacono, Federico Ursino, Salvo Mirabella, Agata Matarazzo – Università di Catania
- SUN – P26** *Upcycling mineral and timber-based waste from construction & manufacturing process industries through eco-design, advanced logistics, quality control and digital solutions*  
Sotirios Grammatikos – NTNU Università Norvegese della Scienza e della Tecnologia
- SUN – P27** *Territorialità e circolarità della filiera ovina*  
Raffaella Taddeo<sup>1</sup>, Rosa Di Capua<sup>2</sup>, Enrico Vagnoni<sup>3</sup>, Valentino Tascione<sup>1</sup>, Alberto Simboli<sup>1</sup>, Andrea Raggi<sup>1</sup>, Gianfranco Spizzirri<sup>2</sup>, Pietro A. Renzulli<sup>2</sup>, Bruno Notarnicola<sup>2</sup>, Alessandra Piga<sup>3</sup>, Sara Bortolu<sup>3</sup> - <sup>1</sup>Università degli Studi "G. d'Annunzio" di Chieti-Pescara, <sup>2</sup>Università degli Studi di Bari Aldo Moro, <sup>3</sup>Consiglio Nazionale delle Ricerche
- SUN – P28** *Caratteristiche, criticità e prospettive di circolarità della lana italiana*  
Maria Gabriella Iacutone, Raffaella Taddeo, Andrea Raggi - Università degli Studi "G. d'Annunzio" di Chieti-Pescara
- SUN – P29** *BioSentinel: Algorithmic Modeling of Financial Risk Linked to Biodiversity Loss?*  
Antonio Iuliano - Evoluzione aziendale LAB S.r.l.
- SUN – P30** *Analisi prospettica del ciclo di vita della produzione fermentativa di Acido Glutarico da fonti di carbonio riciclate: un caso di simbiosi industriale per un approccio integrato ambientale ed economico*  
Maria Ciotti<sup>1,2</sup>, Jorge Benavides<sup>1,3</sup>, Sara Daniotti<sup>1</sup>, Maurizio Bettiga<sup>4</sup> - <sup>1</sup>Consorzio Italbiotec, Università di tecnologia Chalmers, <sup>3</sup>Vela Tech SA, <sup>4</sup>Italbiotec S.r.l. Società Benefit
- SUN – P31** *Starchy agro-industrial residues to energy self-sufficiency: a scalable disruptive approach*  
Chiara Zanin<sup>1</sup>, Rebecca My<sup>1,2</sup>, Ameya Pankaj Gupte<sup>1,2</sup>, Lorenzo Favaro<sup>1,2</sup> – <sup>1</sup>Università degli Studi di Padova, <sup>2</sup>Agri-E
- SUN – P32** *La sostenibilità per le persone*  
Vincenzo Baraniello, Luciano Colantuono, Salvatore Faraci, Terravives S.r.l.
- SUN – P33** *Indice composito ragionato sulle terre rare e il loro utilizzo in ambito delle nuove fonti rinnovabili*  
Rosalia Ferri, Napoletana Plastica
- SUN – P34** *New circular strategies to reduce food waste*  
Riccardo Pittalà, Chinnici Gaetano, Scuderi Alessandro, Costanzo Massimo Riccardo, Privitera Donatella, Zerbo Antonio, Matarazzo Agata – Università degli Studi di Catania
- SUN – P35** *H2 Era Green Valley*  
Federico Parma - H2 Era Green Valley
- SUN – P36** *Recycling of critical raw materials in lithium-ion batteries: material flow analysis and economic analysis of the Italian industry*  
Luca Giaccone<sup>1</sup>, Marco La Monica<sup>2</sup>, Luca Fraccascia<sup>1,3</sup> – <sup>1</sup>Sapienza Università di Roma, <sup>2</sup>ENEA, <sup>3</sup>Università di Twente
- SUN – P37** *AR2 Investment Be Change S.r.l.*  
Gian Nicola Specchio - AR2 Investment Be Change S.r.l.

**SUN – P38** *From Circular Economy to Regenerative Agriculture: The Case of POLLINA PAV*  
A. Dall'Ara<sup>1</sup>, P. Grandini<sup>1</sup>, M. Bellomo<sup>2</sup>, F. Marianini<sup>3</sup> - 1ADA S.r.l.s., 2TAUA S.r.l., 3Agrofertil  
Società Cooperativa Agricola

**SUN – P39** *Reverse Flow e biometano: il progetto Italgas ad Avetrana*  
G. Peretti<sup>1</sup>, A. Vaccari<sup>1</sup>, G. Maso<sup>2</sup>, I. Zangheratti<sup>3</sup>, G. Segre<sup>3</sup> - 1Regas SpA, 2SAFE SpA, 3Italgas  
SpA

Wednesday 5  
November  
10:00 - 13:00

Agorà Fellini - Sites & Soil  
Restoration Area Hall C1

Sites and Soil  
Maintenance and  
Restoration  
[Click here](#)

New planning strategies for territorial safety as a climate adaptation measure

**Organized by: Comitato Tecnico Scientifico Ecomondo & Autorità di bacino distrettuale del fiume Po, Associazione Geotecnica Italiana - Sezione AGI-IGS**

Language:: Italian

Recent extreme events that have particularly affected Northern Italy indicate that planning for territorial safety needs to be rethought. The measures to be adopted for PAI and the application of the Floods Directive are very important tools for Climate Adaptation Strategies.

The conference will illustrate some case studies and also proposals to make the territory more resilient.

### Session Chair

Alessandro Bratti, Scientific Technical Committee Ecomondo and International Network of Basin Organizations (INBO)

### Program

10.00 Participants registration

10.30 *Guidelines from the Italian Ministry of Environment and Energy Security*  
Giuseppe Travia, Italian Ministry of Environment and Energy Security

10.45 *Planning strategies for Romagna*  
Marta Martinengo, Po River District Basin Authority  
Marco Andreoli, ART

11.00 *The role of ANBI in risk mitigation*  
Massimo Gargano, ANBI

11.15 *Gruppo Cap and sustainable urban drainage: strategies and interventions for territorial resilience in the face of climate change*  
Dario Sechi, Gruppo CAP

11.30 *Round table*  
Moderator:  
Andrea Gavazzoli, Science journalist

Participants:  
Marina Colaizzi, Eastern Alps District Basin Authority  
Gaia Checcucci, Northern Apennines District Basin Authority  
Andrea Colombo, Po River District Basin Authority  
Gianluca Zanichelli, AIPO  
Aldo Sibilia, Director Program Management Sogesid

Wednesday 5  
November

10:00 - 17:00

Agorà Tiberio - Water  
Cycle Area Hall D8

Water Cycle and Blue  
Economy  
[Click here](#)

Wastewater and sewage sludge treatment and management within the new directives

**Organized by: Comitato Tecnico Scientifico Ecomondo & Utilitalia, Università Politecnica delle Marche, Università di Brescia, IRSA-CNR, SNPA, Commissario Straordinario Unico per la Depurazione ed il Riuso**

Language:: Italian

> [Go to the conference posters](#) <

On 01 January 2025 the new wastewater Treatment Directives entered into force posing several challenges such as enhanced integrated water management plans, small agglomerations and secondary treatment, individual systems, stringent nutrients and micropollutants removal (including Financed by producer responsibility), Energy audits, Energy neutrality by 2045, GHG monitoring and reporting by 2030. Ministries and water utilities are now working for national implementation.

This workshop will present roadmap for national implementation and action plans from public institutions and implementers.

### Session Chairs

Giorgio Bertanza, Ecomondo STC  
Camilla Braguglia, Ecomondo STC  
Francesco Fatone, Ecomondo STC  
Tania Tellini, Ecomondo STC

### Program

10.00-13.00 **Morning Session**

10.00-10.20 Introduction by the Chairs

10.20-10.40 *National implementation: legislative roadmap*  
Andrea Scolasti, Italian Ministry of Environment and Energy Security

10.40-11.00 *The current Italian scenario: preliminary gap analysis to achieve the objectives*  
Giovanni Piccoli, UTILITALIA

11.00-11.20 *From infringement to the new directive*  
Fabio Fatuzzo, Extraordinary Commissioner for Water Treatment

11.20-11.40 *Aspetti sanitari nella valutazione del rischio e sorveglianza sanitaria*  
Enrico Veschetti, Istituto Superiore di Sanità

11.45-13.00 **Speeches selected from the Call for Papers**

11.45-11.55 *Il monitoraggio qualitativo della rete fognaria come strumento integrato nell'ambito dei nuovi paradigmi di gestione acque reflue e fanghi di depurazione*  
Luca Sudati, Almaviva Bluebit

11.55-12.05 *Monitoraggio avanzato e ottimizzazione dei processi aerati negli impianti di depurazione: il contributo del LESSDRONE agli obiettivi della Direttiva UE 2024/3019*  
Iacopo Ducci, Dipartimento di Ingegneria Civile e Ambientale - Università degli Studi di Firenze

12.05-12.15 *Misura dell'Impronta di Carbonio nel Servizio di Depurazione: il Caso Alfa S.r.l. in Conformità alla Nuova Direttiva Europea*

Daniele Cecconet, AlfaVarese

12.15-12.25 *Implementazione Cicli alternati Impianto di Depurazione Is Arenas (Cagliari)*

Giulio Ricciuto, Acciona Agua S.A.

12.25-12.35 *Il caso dell'impianto di depurazione di Marcianise (CE)*

Lucia Terracciano, Cogei

12.35-12.45 *Designing an Integrated Approach to Assess Chemical and Ecotoxicological Risk in Urban Aquatic Systems under Climate Change*

Melissa Barra, Istituto Superiore di Sanità

12.45-12.55 *Unlocking Agricultural Potential through Treated Wastewater Reuse in Jordan: A Multi-Stakeholder Model for Climate Resilience and Circular Water Management*

Aysha Abu Allan, Multi-Horizons for Sustainable Environmental Solutions, Jordan

#### 14.20-17.00 **Afternoon session**

14.20-14.50 *COD, N, P e MiE - numbers and considerations*

Giorgio Bertanza, Ecomondo STC e Brescia University

#### 15.00-16.30 **Speeches selected from the Call for Papers**

15.00-15.10 *La BioPiattaforma di Sesto San Giovanni: Integrazione Industriale e Innovazione per il Recupero di Materia ed Energia*

Alessandro Reginato, Gruppo CAP

15.10-15.20 *Toward the new Antimicrobial resistance monitoring obligation in wastewater treatment system: challenges, analytical criticalities and evidences*

Maria Concetta Arizzi, Acea

15.20-15.40 *Contaminanti emergenti nei WWTP: Strategie Integrate per la Riduzione, il Monitoraggio e la Valorizzazione dei Fanghi*

Dyana Vitale, Aimplas, Spain

15.40-15.50 *L'esperienza svizzera sul campo relativamente alla rimozione dei microinquinanti dalle acque reflue*

Paolo Foa, TBF, Svizzera

15.50-16.00 *Efficient and sustainable micropollutants removal from water with the Aurea®-technology*

Cristina Cominelli, Haskoning, Paesi Bassi

16.00-16.10 *Ozonolisi in digestione anaerobica: il caso studio nel progetto Biomethaverse*

Michela Peroni, Siad

16.10-16.20 *Climate impact of different process configurations for nutrient removal in Urban Wastewater Treatment Plant under the new UWWTD (Dir. 2024/3019)*

Andrea Gialdrone, INCOPA

16.20-16.30 *iGSR®: Aerobic Granular Sludge for Advanced Nutrient Removal and Energy Efficiency in Compliance with New Effluent Standards*

Thomas Martin, Invent

16.30-17.00 Discussion and closure by the Chairs

#### **Poster Session**

- 1. Il Partenariato Pubblico Privato e il project finance dopo il Correttivo 2024: applicazioni concrete al servizio idrico integrato**  
Giorgio Lezzi, Osborne Clarke Italia
- 2. ZLD Project in Valbasento**  
Nello Gaglione, Alfalaval
- 3. Innovare la gestione delle acque reflue e dei fanghi di depurazione: l'approccio dei futures studies per anticipare le direttive e guidare le utilities**  
Monica Tonon, Studio professionale Tonon
- 4. INTECH4WATER: un'integrazione di tecnologie innovative per la depurazione e la valorizzazione di acque reflue urbane e industriali**  
Simonetta Pancaldi, Università di Ferrara
- 5. A Patent Landscape Analysis (PLA) of the main technological trends concerning the ProPla project for the microPET conversion into value-added products**  
Andrea Vezzulli, Università degli Studi dell'Insubria
- 6. CONSTANCE. Il controllo intelligente degli impianti di depurazione. Installazione sull'impianto municipale del comune di Ravenna**  
Luca Luccarini, ENEA
- 7. Why pyrolysis should be part of your road map - Financially attractive state of the art energy positive, carbon negative biosolids treatment with end of waste path for biosolids biochar**  
Christian Wieth, Aquagreen
- 8. Strategie di adeguamento alla Direttiva UE 3019/2024: Il Piano di sviluppo di Alfa S.r.l. per la Provincia di Varese**  
Daniele Cecconet, Alfavarese
- 9. Dai Fanghi a Risorsa Energetica: la Roadmap di Alfa per l'Efficienza nel Servizio Idrico**  
Annalisa Berna, Alfavarese
- 10. Smart Ozonation: A 3-Year Journey to Full-Scale Micropollutant Removal Enabled by Digital Modeling**  
Roberta Muoio, AM-Team
- 11. Riutilizzare per innovare: il nuovo corso delle acque reflue**  
Vittorio Spinuso, Bip Group
- 12. COupling MicroBes and mINerals for treating heavy metal containing waters (COMBINE): a focus on exopolysaccharides from cyanobacteria**  
Matilde Ciani, Università di Firenze
- 13. Use of EmBio to reduce toxic and odorous compound from sewage sludge and analysis of volatile compound using Mass Spectrometry Gas Chromatography**  
Michele Razzaboni, Università di Bologna
- 14. Life Cycle Assessment of Innovative Materials for Wastewater and Sewage Sludge Treatment Aligned with EU Directives**  
Dimitrios Ziotas, Università di Bologna
- 15. Il riutilizzo sostenibile delle acque reflue urbane - normativa, tecnologie, criticità**  
Enzo Di Nunno, In-TIME SRL
- 16. Decarbonizing Wastewater Treatment in the EU: A Pathway to Climate Neutrality and Circularity**  
Andrea Goglio, Rina SpA

**17. Perché è fondamentale misurare e controllare l'azoto ammoniacale negli impianti di depurazione**

Maria Serena Gironi, Hach Lange

**Wednesday 5  
November**

**10:00 - 13:00**

Agorà Augusto -  
Bioeconomy Area Hall D1

**Circular and  
Regenerative  
Bioeconomy**  
[Click here](#)

## Biowaste: XXVII Conference on Composting and Anaerobic Digestion. Plenary Session

**Organized by: Comitato Tecnico Scientifico Ecomondo & CIC, ISPRA**

Language:: Italian

The plenary session will address the state of the art and prospects for the collection and recycling of organic waste in Europe and Italy. Specific focus will be placed on quantifying the characteristics, benefits, and impacts of organic waste management: from the quality of collected organic waste streams to the performance of the treatment system and the valorization of final products, thanks to the surveys that the CIC constantly carries out throughout the national territory.

### Program

10.00 Opening of the session  
Gianpaolo Vallardi, CIC President

10.10 *State of the art of the Italian Bio-waste sector compared to the European scenario*  
Andrea Lanz, ISPRA

10.30 *Round table on organic waste quality*

Moderator:  
Giorgio Ghiringhelli, ARS Ambiente

Invited to participate:

CIC  
BIOREPACK  
LEGAMBIENTE  
UTILITALIA  
ASSOAMBIENTE

11.30 *The bioeconomy of organic waste in Italy between material recycling and energy recovery*  
Massimo Centemero, CIC General Director

11.45 *Measuring the Carbon footprint in organic waste treatment: the CO2mpost tool*  
Luca Galeasso, Studio Fieschi

11.55 *Methane and nitrous oxide emission factors in two technologically advanced composting plants*

Giuseppe Moscatelli, CRPA/CIC  
Alberto Confalonieri, CRPA/CIC  
Ambrogio Pigoli, CRPA/CIC

12.10 *Carbon footprint: a value for companies*  
Vera Manenti, eAmbiente

12.25 *Improving crop nutrient use efficiency and soil carbon storage through compost application: evidence from a six-year field trial*

Alberto Confalonieri, CIC/University of Bologna  
Ambrogio Pigoli, CIC/University of Bologna  
Marco Grigatti, CIC/University of Bologna

12.35 *Compost quality awards*

Presentation of certificates to new CIC-branded products and testimony of a virtuous valorization of the Brand by Calabria Maceri e Servizi SpA

12.45 Conclusions

*Wednesday 5  
November*

10:00 - 13:00

Neri 1 Room South Hall

**States General of the  
Green Economy**

[Click here](#)

International plenary session - Green economy: driving the future in times of uncertainties

**Organized by: Consiglio Nazionale della Green Economy**

Language:: English

Instant translations:: Italian,French

*In partnership with Italy for Climate*

### **Program**

Moderators:

Amy Kazmin, Rome Correspondant, Financial Times

Raimondo Orsini, Director, Fondazione sviluppo sostenibile

*Welcome*

Corrado Peraboni, CEO Italian Exhibition Group

*Institutional Opening*

Adolfo Urso, Minister of Enterprises and Made in Italy (video message)

THE GREEN ECONOMY GLOBAL PERSPECTIVES

Introduction by Raimondo Orsini

*EUROPE - European Green Deal, past and future*

Alessandra Zampieri, Director for Sustainable Resources, JRC, European Commission

*CHINA - China, the Green Route*

Junming Zhu, Associate Dean, School of Public Policy and Management, Tsinghua University

*USA - Make America Green Again?*

Oliviero Bergamini, Foreign Editor in Chief, TG1 Rai

*AFRICA - Next global climate economy*

Davinah Milenge Uwella, Chief Programme Coordinator, Climate Change and Green Growth Department, African Development Bank

DECARBONIZATION: THE NEW GLOBAL SCENARIO

Interview to Jeffrey Sachs, Economist and Professor, Columbia University

FINANCING THE TRANSITION: WHERE SHOULD THE MONEY GO?

*From Today to Tomorrow: Financing the Transition to a Resilient Green Economy*

Paloma Aba Garrote, Director Climate, Infrastructure and Environment Executive Agency, European Commission

*Competitive advantage and financial returns of green investments*

Nino Tronchetti Provera, Founder and Managing Partner, Ambienta - Asset Manager

*The geopolitical reset and how to win in a low carbon economy*

Marco Duso, EY-Parthenon Global Sustainability leader - EY Italy Sustainability Leader

WE MEAN BUSINESS: SUCCESS STORIES FROM LEADING COMPANIES

Maria Paola Chiesi, Vice President, Chiesi Farmaceutici

Eleonora Petrarca, Head of Business Development Italy, Enel Green Power

NEXT STOP COP30: WHAT TO EXPECT FROM BELEM

Chiara Montanini, Project Manager, Italy for Climate

*Wednesday 5  
November*

10:30 - 12:30

Agorà Ariminum -  
Circular Economy Area  
Hall D1

**Resource Efficiency and  
Circular Economy**  
[Click here](#)

Circular Economy in Construction: Strategies and Innovations for the Decarbonization of the Building Sector

**Organized by: Comitato Tecnico Scientifico Ecomondo & Green Building Council, Università Politecnica delle Marche**

Language:: Italian

The construction sector is responsible for approximately 40% of Europe's energy consumption and 36% of energy-related greenhouse gas emissions, with a significant impact largely driven by the embodied energy in materials and related building processes. To effectively tackle this challenge, the sector must adopt advanced solutions based on the principles of the circular economy, addressing all phases of a building's life cycle, from initial design to end-of-life material management.

A particular focus will be given to operational and technological solutions for minimizing embodied emissions in materials through approaches such as modular design, advanced prefabrication, design for disassembly, and the use of innovative bio-based or recycled materials. The event will provide a concrete opportunity to share and analyze best practices and the latest developments in alignment with key European directives and global decarbonization goals for the construction sector.

### Session Chairs

Gian Marco Revel, Università Politecnica delle Marche

Marco Caffi, Green Buildign Council Italia

### Programme

10.30 Introduction by the Chairs

10.40 *The evolution of circular economy policies for the construction sector*

Josefina Lindblom, Senior Policy Officer - DG Environment EU Commission

11.00 *Approaches and tools for circular building design*

Paolo Cresci, Arup Italia

11.15 *The vision of the builders*

Valentina Mingo, ANCE

11.30 *The role of European cities in the circular transition - the Prato Circular City case*

Valerio Barberis - Barberis & partners

Councillor for Urban Planning, Environment, Circular Economy of the Municipality of Prato (2014-2024)

11.45 *Innovation of building materials for the circularity of the built environment*

Alessandro Morbi, Heidelberg Materials Italia

12.05 *From stainless steel slag to TapoEKO certified products: processes, performance, and industrial applications*

Emanuela Gubbiotti, Tapojarvi Italia

12.15 *Designing and constructing tomorrow's buildings in wood and steel*

Marco Maiocchi, Wolf System Italia

12.25 Discussion and closure by the Chairs

Wednesday 5

November

10:30 - 13:00

Diotallevi 1 Room South Hall

**Resource Efficiency and Circular Economy**  
[Click here](#)

## Next Generation EU and Circular Economy

**Organized by: Comitato Tecnico Scientifico Ecomondo & Ministero dell'Ambiente e della Sicurezza Energetica, ISPRA**

Language:: Italian

The day represents the fourth annual event at Ecomondo to discuss of the implementation of the measures, financing and projects of the Italian Recovery and Resilience Plan relating to the mission of circular economy. 2025 is the last operational year for the implementation of investments and therefore represents a key year for the finalization of the interventions scheduled by June 30, 2026.

Together with the protagonists who have carried out the investment programming and implementation of the interventions, it will be an opportunity to analyze the state of the art and evaluate the overall effectiveness of the investments.

### Session Chair

Valeria Frittelloni, Head of Department of Environmental Assessment, Monitoring and Sustainability, ISPRA

### Program

Speakers:

Laura D'Aprile, Head of the Sustainable Development Department, Italian Ministry of Environment and Energy Security

Maria Siclari, General Director ISPRA

Luca Mariotto, Environment Unit Director UTILITALIA

Elena Trapè, Confindustria (General Confederation of Italian Industry)

Fabio Costarella, Vice Director General CONAI

Stefania Dota, Vice Secretary General ANCIANCI (National Association of Italian Municipalities)

Wednesday 5

November

10:30 - 13:00

Neri 2 Room South Hall

**Sustainable and Circular Textiles**  
[Click here](#)

Urban Textile Waste. The EPR is coming: who are the producers' take back schemes and what is their vision for the development of the system

**Organized by: Comitato Tecnico Scientifico Ecomondo & UNIRAU**

Language:: Italian

The EU Strategy for Sustainable and Circular Textiles, launched on 30 March 2022, is gradually turning into concrete actions. As for production with Ecodesign, Digital Passport, Reach and End of Waste regulations.

The revision of Directive 2008/98 foresees the institution of EPR regimes in Member States to ensure the proper management of post-consumer textile waste with the obligation of separate collection of this urban waste.

In Italy, in recent decades, an efficient supply chain has been developed for the collection, selection and enhancement of this fraction of urban waste, which has consolidated specific skills involving municipalities, social economy entities and sorting companies in the management of volumes that are still limited compared to European expectations.

The imminent advent of the EPR regime should guarantee, through the take back schemes of producers, an economic and organizational contribution to the current system. This situation will force the actual system to face the challenges of increasing collections, optimizing preparation for reuse, defending and strengthening the global reuse markets and developing a strong quality recycling industry.

### Session Chair

Elisabetta Perrotta, Assoambiente

### Program

#### *Greetings and introduction*

Andrea Fluttero, UNIRAU Assoambiente

Joseph Valletti, ARIU

Franco Bonesso, ANCI

#### *Research and Innovation on textile circularity in Horizon Europe*

Martin Policar, DG RTD European Commission

#### Speakers:

Michele Priori, Cobat Tessile

Giancarlo Dezio, Ecotessili

Paul Dietzsch-Doertenbach, Head of Landbell Textile EPR Programme Textile EPR

Luca Campadello, Erion Textiles

Roberto Tognoli, Recrea

Enrico Soffiati, Rematrix

Mauro Chezzi, Retex green

Sara Faccioli, ReDress

Wednesday 5

November

11:45 - 13:00

Innovation Arena - South  
Hall

Research and  
Innovative Start Up

[Click here](#)

EU funding for green & blue transition projects – a world of possibilities

**Organized by: Comitato Tecnico Scientifico Ecomondo & Commissione Europea**

Language:: English

Instant translations:: Italian

In this session, European Commission representatives will present the European Innovation Council (EIC) and the European Climate, Infrastructure and Environment Executive Agency (CINEA) as well as their 2025 and 2026 Work Programs and thematic funding calls.

### Session Speakers

CINEA:

**Aneta Willems**, Head of Department for natural resources, climate, sustainable blue economy and clean energy at European Climate, Infrastructure and Environment Executive Agency (CINEA)

European Innovation Council (EIC):

**Paolo Bondavalli**, EIC Programme Manager for Advanced Materials for Energy

## **Program**

11.45 *Introduction by the Chair*

**Serena Borgna**, National Agency for European Research & Horizon EU NCP

12.00 *Welcome address*

**Fabio Fava**, Chair of the Ecomondo's Scientific Technical Committee

12.05 **Aneta Willems**, Head of Department for natural resources, climate, sustainable blue economy and clean energy at European Climate, Infrastructure and Environment Executive Agency (CINEA)

12.20 **Paolo Bondavalli**, EIC Programme Manager for Advanced Materials for Energy

12.35 **Q&A**

12.50 **Conclusions**

## ***Short description of EU Agencies***

### **The European Innovation Council**

The European Innovation Council (EIC) is Europe's flagship innovation programme. It aims at identifying, developing and scaling up breakthrough technologies and game changing innovations with the potential to scale up internationally and become market leaders. The EIC supports all stages of innovation, from research and development on the scientific underpinnings of breakthrough technologies, to validation and demonstration of breakthrough technologies and innovations to meet real world needs, to the development and scaling up of start-ups and small and medium-sized enterprises (SMEs) applying a hands-on content wise approach.

### **The European Climate, Infrastructure and Environment Executive Agency (CINEA) and its EU funding programmes for transport, energy, climate action, environment, sustainable blue economy and maritime fisheries and aquaculture**

The European Climate, Infrastructure and Environment Executive Agency (CINEA) has been established by the European Commission to implement EU funding programmes (or parts thereof) for transport, energy, climate action, environment and maritime fisheries and aquaculture. CINEA support its stakeholders in delivering the European Green Deal through high quality programme and project management that helps to implement projects contributing to competitiveness, decarbonisation, and sustainable growth. The Agency manages 7 EU Programmes: Connecting Europe Facility (CEF), Horizon Europe, LIFE programme, European Maritime, Fisheries and Aquaculture Fund (EMFAF), Innovation Fund, EU Renewable Energy Financing Mechanism and Public Sector Loan Facility under the Just Transition Mechanism. CINEA's presentation will focus on providing information on its programmes and funding opportunities.

Wednesday 5  
November

14:00 - 17:00

Agorà Augusto -  
Bioeconomy Area Hall D1

Circular and  
Regenerative  
Bioeconomy  
[Click here](#)

Biowaste: XXVII National Conference on Composting and Anaerobic Digestion. Technical Session

**Organized by: Comitato Tecnico Scientifico Ecomondo & CIC**

Language:: Italian

[> Go to the conference posters <](#)

### Professional education credits will be granted for Agronomists

This session will address topics related to organic waste matrices, focusing on their recycling methods and the valorization of the resulting products. Discussions will encompass outputs ranging from biomethane to various types of organic fertilizers (soil improvers and plant nutrients), essential for preserving soil organic fertility, as well as compounds applicable across a broad spectrum of industrial sectors.

### Session chairs

Massimo Centemero, Italian Composting Consortium CIC  
Alberto Confalonieri, CIC Technical Committee

### Program

#### ***Speeches selected from the Call for Papers***

*Methane production from anaerobic co-digestion of Posidonia oceanica and organic fraction of municipal solid waste*

M. Occhinegro, D. Scaringi, S. Duretti, F. Todaro, M. Notarnicola - DICATECh, Politecnico di Bari

*Compostaggio sperimentale di residui orticoli da serra unitamente a tutori (spaghi) e ancoraggi (clips) compostabili (Analisi del caso studio Almeria)*

M. Pognani, Novamont SpA

*Effetti delle pratiche rigenerative sulla qualità del suolo e sui servizi ecosistemici in impianti di actinidia*

T. Berloco<sup>1</sup>, M. Mastroleone<sup>2</sup>, C. Loiudice, D. Laterza<sup>1</sup>, G. Carlucci<sup>1</sup>, L. Gatto<sup>2</sup>, M. Natali, C. Scotti<sup>3</sup>, L. Vittori Antisari<sup>4</sup> - <sup>1</sup>Agreement Srl, <sup>2</sup>Zespri International Ltd, <sup>3</sup>1.TER soc. coop a r.l., <sup>4</sup>Università di Bologna

*Dalle biomasse al suolo: come costruire scenari di bioeconomia circolare nei territori di montagna*

S. Silvestri, D. Bona, S. Bertolini, D. Scrinzi, L. Tomasi - Fondazione Edmund Mach (FEM)

*Il microbiota del compost aumenta la biodiversità della rizosfera di pomodoro e rappresenta una fonte di batteri benefici*

R. Cipriani<sup>1</sup>, N. De Biasio<sup>1</sup>, G. Ghirardello<sup>1</sup>, T. Bonato<sup>2</sup>, W. Zanardi<sup>2</sup>, B. Baldan<sup>1</sup>, S. Nigris<sup>1</sup> - <sup>1</sup>Dipartimento di Biologia, Università di Padova <sup>2</sup>S.E.S.A. S.p.A.

*Utilizzo di metodi di intelligenza artificiale per l'ottimizzazione del processo di compostaggio*

D. Palumbo<sup>1</sup>, P.R. Di Palma<sup>1</sup>, G. Gazzola<sup>1</sup>, M. Tammaro<sup>2</sup> - <sup>1</sup>Dipartimento di Sostenibilità dei Sistemi Produttivi e Territoriali (SSPT), ENEA, Centro di Ricerche della Casaccia, <sup>2</sup>Dipartimento di Sostenibilità dei Sistemi Produttivi e Territoriali (SSPT), ENEA, Centro di Ricerche di Portici.

*Modello integrato di bioraffineria per la valorizzazione dei rifiuti organici in biometano e fertilizzanti ad alto valore aggiunto*

M. Niederbacher, M. Maccaferri, P. Zambaldi - Bihcon Srl

*Compost in Agriculture: Evaluating Carbon Farming in Tuscany*

E. Peruzzi<sup>1,3</sup>, I. Pecorini<sup>2</sup>, A. Scartazza<sup>1,3</sup>, F. Pasciucco<sup>2</sup>, M. Scatena<sup>1</sup>, I. Rosellini<sup>1</sup>, F. Vannucchi<sup>1,3</sup>, S. Doni<sup>1</sup>, C. Macci<sup>1,3</sup>, G. Masciandaro<sup>1,3</sup> - <sup>1</sup>Consiglio Nazionale delle Ricerche, Istituto di Ricerca sugli Ecosistemi Terrestri (CNR-IRET), <sup>2</sup>Università di Pisa, Dipartimento di Ingegneria dell'Energia, dei Sistemi, del Territorio e delle Costruzioni (UNIP-DESTEC), <sup>3</sup>National Biodiversity Future Center (NBFC)

*Recycled Organic Waste as a Sustainable Phosphorus Source for Legumes: Impacts on Nutrition and Rhizobia Symbiosis*

D. Callovi, M. Grigatti - Dipartimento di Scienze e Tecnologie Agro-Alimentari (DISTAL) Università di Bologna

*La BioPiattaforma di Sesto San Giovanni: Simbiosi Industriale e Innovazione per l'Economia Circolare*

D. Scaglione, T. Amati - Gruppo CAP

*Analisi delle agroenergie: la filiera della digestione anaerobica e della pirolisi*

I. Falconi, Centro di ricerca Politiche e Bioeconomia (CREA)

### **Poster Session**

**1. Impianti di compostaggio: il nuovo Piano della Regione Campania**

A. Pistilli, Responsabile Tecnico Gestione Rifiuti, Libero professionista

**2. Compostiere di comunità: il nuovo Piano della Regione Campania**

A. Pistilli, Responsabile Tecnico Gestione Rifiuti, Libero professionista

**3. Sperimentazione sulla produzione di ammendante compostato verde in biotunnel**

G. L. De Biasi, M. Millevolte, A. Rodriquens - ENVAL Srl

**4. The siloxanes in biogas. Origin, Effects, and Treatment. BTS-MPdry technology for Siloxane removal**

J. Reina Hernandez - TIND-BGasTech, Tormene Group

**5. Il potenziale energetico dei fanghi tramite carbonizzazione idrotermale: il modulo B-Energy come soluzione integrata**

A. Kiwan, D. Pirini, E. Torricelli - B-Plas S.b.r.l

**6. Can Fe-modified biochar work as a slow-release fertilizer and promote soil carbon storage? A circular solution for sustainable phosphorus and soil carbon management**

A. Shulga<sup>1</sup>, M. Grigatti<sup>1</sup>, D. Casini<sup>2</sup>, G. Lotti<sup>2</sup> - <sup>1</sup>Dipartimento di Scienze e Tecnologie Agro-Alimentari (DISTAL) Università di Bologna, <sup>2</sup>Renewable Energy Consortium for Research and Demonstration (RE-CORD).

**7. MEAT-ICO: Circular Valorization of Meat-Processing Residues through Anaerobic Digestion and Downstream Technologies**

Riccardo Rossi, Demetrio Brindani, Claudia Cardoso, Gloria Assirati, Andrea Bozzardi, Davide Imperiale - Stazione Sperimentale per l'Industria delle Conserve Alimentari SSICA, Fondazione di Ricerca

**8. Passive Thermal Mitigation for EV Batteries in Confined Spaces: Enhanced Phase Change Materials with Carbon Chars Derived from Biogas Digestate**

K. Somek<sup>1,2</sup>, E. Derun<sup>1</sup>, D. Papurello<sup>2,3</sup> - <sup>1</sup>Faculty of Chemical and Metallurgical Engineering, Chemical Engineering Department, Yildiz Technical University, <sup>2</sup>Dipartimento ENERGIA (DENERG), Politecnico di Torino, <sup>3</sup>Energy Center, Politecnico di Torino

- 9. Biomethane Tracer Project: TDLIDAR Technique for Continuous Monitoring Localisation and Quantification of Biogas and Methane Leaks in Industrial Plants and Digesters**  
I. Kostadinov<sup>1</sup>, E. Cozzani<sup>1</sup>, G. Avellinovi<sup>1</sup>, H. Rahmani<sup>1</sup>, S. Trotta<sup>2</sup>, M. Garuti<sup>2</sup> - <sup>1</sup>Proambiente Scrl, <sup>2</sup>Centro Ricerche Produzioni Animali - CRPA Soc. Cons. p. A.
- 10. Effects of salt and temperature stresses in *Chenopodium quinoa*: evaluation of growth parameters and antioxidant content in the presence of microalgal biostimulants**  
L. Giorgetti, S. Fiorentino, M. G. Caruso, A. Melchiorre, A. Souid, L. Bellani - Istituto di Biologia e Biotecnologia Agraria (IBBA), CNR
- 11. Potential of Biogas and Biomethane from Agricultural Biomass: Prospects for Renewable Energy Development**  
D. Mignogna, Università degli Studi del Molise
- 12. Anaerobic Digestion Potential in Egypt, Case Study**  
D. Essmat, Ibtikar for Energy Solutions
- 13. ALBAVITA project: from fruit by-products to value, a biological valorization**  
S. Demaria<sup>1</sup>, A. P. Sobolev<sup>2</sup>, E. Becattini<sup>3</sup>, G. Scioli<sup>2</sup>, N. Raddadi<sup>3</sup>, C. Baldisserotto<sup>1</sup> - <sup>1</sup>Dipartimento di Scienze dell'Ambiente e della Prevenzione - 1DISAP, Università di Ferrara, <sup>2</sup>Institute for Biological Systems, ISB, CNR, <sup>3</sup>Ingegneria Civile, Chimica, Ambientale e dei Materiali (DICAM), Università di Bologna
- 14. Trattamento di biogas ad alto contenuto di idrogeno solforato con bioscrubber anossico**  
C. Polizzi<sup>1</sup>, N. Raybutr<sup>2</sup>, D. Gonzalez<sup>3</sup>, G. Rosi<sup>4</sup>, G. Mori<sup>4</sup>, R. Jariyaboon<sup>2</sup>, P. Kongjan<sup>2</sup>, D. Gabriel<sup>3</sup>, G. Munz<sup>1</sup> - <sup>1</sup>Dipartimento di ingegneria civile e ambientale, Università di Firenze, <sup>2</sup>Prince of Songkla University (Pattani Campus), <sup>3</sup>Department of Chemical, Biological and Environmental Engineering, Escola d'Enginyeria, Universitat Autònoma de Barcelona, Spain, <sup>4</sup>Consorzio Cuoiodepur SpA
- 15. Biorefinery Approach for Valorizing Anaerobic Digestate into agricultural Bioproducts**  
A. Carnevale, M. Marone, D. Racca, D. Soldo, P. Marasco, F. P. Spagone, M. Francavilla - Università degli Studi di Foggia
- 16. Dagli scarti del caffè ai fertilizzanti innovativi per l'agricoltura**  
M. Malaspina, A. Silvestrini, D. Olivieri, C. Franceschi, M. Zonzin - Formet SpA
- 17. Transportable Biogas Plant to Full-Scale Facility**  
C. van Boggelen, H. Bos - WTT

Wednesday 5

November

14:00 - 16:00

Diotallevi 2 Room South  
Hall

**Environmental  
Monitoring and Earth  
Observation**  
[Click here](#)

From sky to ground: Earth observation for sustainable critical raw materials management

**Organized by: Comitato Tecnico Scientifico Ecomondo & Politecnico di Torino, CINECA**

Language:: English

In a world increasingly concerned for secure and sustainable access to critical raw materials (CRM) for the green and digital transitions, the responsible and sustainable management of these resources becomes a strategic priority. This session, organized by the ECOMONDO Scientific Committee, the Politecnico di Torino, and the European Commission, explores how Earth observation (EO) technologies and satellite data are transforming our ability to monitor, assess, and manage the environmental impacts and supply chains of CRMs.

From exploration to circular economy practices, the session brings together key institutional stakeholders, researchers, and technology providers to examine how remote sensing, Copernicus services, and in-situ data can inform policy, support regulatory compliance, and enable transparency and traceability in CRM value chains.

## Program

### **Keynote Speech**

*Strategic Autonomy, Sustainability, and Innovation: The Role of Earth Observation in Europe's Critical Raw Materials Agenda*

Mark Dowell, DG JRC, European Commission

Mr. Mark Dowell's keynote address will explore the strategic role of Earth observation technologies in supporting the European Union's ambitions for sustainable autonomy in the sourcing and governance of Critical Raw Materials (CRMs). He will highlight how the European Commission is fostering innovation and collaboration across industrial ecosystems by leveraging space-based assets, focusing on integration with the EU Green Deal, the Net-Zero Industry Act, and the Critical Raw Materials Act.

H.E. Piotr Pniejnia-Olszyński, Consul, Advisor to the Political-Economic Office of the Polish Embassy in Italy

### **Panel Discussion**

*From policy to implementation: EO from CRM exploration to monitoring of strategic projects to enhance circularity and control environmental impacts*

Moderated by:

Stefano Corgnati, Rettore del Politecnico di Torino

Giovanni De Santi, Politecnico di Torino

Gabriella Scipione, CINECA

Participants:

Francesca Salvemini, Head of the Minister's Technical Secretariat, Italian Ministry of Environment and Energy Security

Gianluca Granero, DG DEFIS, Head Space Economy Unit

Daniele Spizzichino, ISPRA, Senior environmental expert

Gerardo Herrero, DG GROW, Seconded National Expert

Claudia Baranzelli, OECD, Policy analyst

Piero Boccardo, Politecnico di Torino, Full Professor

*Wednesday 5  
November*

14:00 - 17:30

Agorà Malatesta -  
Environmental Monitoring  
Area Hall D7

**Environmental  
Monitoring and Earth  
Observation**

[Click here](#)

Odor emissions: from abatement technologies to new control strategies

**Organized by: Comitato Tecnico Scientifico Ecomondo & ISPRA, Società Chimica Italiana  
- Divisione CABC**

Language:: Italian

[> Go to the conference posters <](#)

Now in its fifteenth edition, the conference on odorous emissions at Ecomondo represents a reference event for the community of industry operators, where researchers, industry, Public Administration and environmental organizations bring their experiences on a topic that is becoming highly relevant in environmental planning. As usual, the conference will open with an update on the work of national and international technical committees regarding current regulations on odorous emissions. There will also be presentations by the main public research bodies working on this front, as well as case studies and best practices from public administrations, control bodies and companies developing technologies on the subject.

## Session Chairs

Gianluigi de Gennaro, University of Bari Aldo Moro  
Lucia Muto, Italian Institute for Environmental Protection and Research  
Gaetano Settimo, Italian National Institute of Health

## Program

14.00-14.10 Introduction

Gianluigi de Gennaro, University of Bari Aldo Moro

14.10-14.20 *Odorous emissions: the UNEM sector's point of view*

Maria Virginia Coccia, Unione Energie per la Mobilità Unem

14.20-14.30 *Dynamic estimation of peak concentrations for odor impact modeling assessment*

Daniela Barbero, Gianni Tinarelli, Alessandro Nanni - SUEZ ARIANET s.r.l.

14.30-14.40 *Global-scale comparative study of Odour Impact Criteria through modeling analysis*

Francesca Tagliaferri, Marzio Invernizzi, Sironi Selena - Polytechnic University of Milan

14.40-14.50 *Biotechnological treatment air and wastewater for greater sustainability in the oil industry: the contribution of the LIFE WATEROIL project*

Nicola Secchi, Gabriele Gagliardi - Eurovix Spa

14.50-15.00 *High Efficiency Advanced Biofiltration (HEAB): an innovative and sustainable approach for treating odorous emissions from wastewater and waste management*

Mariangela Maggi, Arantxa Bomboi - SUEZ ARIANET Srl Italia, SUEZ Smart Environmental Solutions Spain S.L.U Spain

15.10-15.20 *Multi-Criteria Decision Analysis for selection of odour emissions abatement technologies*

Claudio Cino, Gabriella Nasca, Andrea Petrella, Todaro Francesco, Michele Notarnicola - Polytechnic University of Bari

15.20-15.30 *Synergy between continuous odor control systems and plant management procedures*

Francesco Filippelli, Davide Scaglione - CAP Evolution

15.30-15.40 *The ODOR-GC Project: Development of a miniaturized gas chromatograph for real-time analysis of odorous compounds*

Enrico Cozzani, Francesco Riminucci, Stefano Zampolli, Ivan Elmi, Luca Masini, Federico Zardi, Alessandra Immovilli, Alessandra Zanolli, Giada Montesissa, Flavio Antonio Franchina, Monica Romagnoli - PROAMBIENTE, CNR-ISMN Bologna, CRPA Reggio Emilia, LABORATORIO TERRA&ACQUA TECH, University of Ferrara

15.40-15.50 *Proposal for a monitoring methodology aimed at spatio-temporal detection of odorous emissions from wastewater treatment plants*

Riccardo Gori, Stefano Dugheri, Chiara Vita, Lorenzo Venturini, Fabio Cioni, Domenico Cipriano, Ilaria Rapi, Giovanni Cappelli, Mieczyslaw Sajewicz, Antonio Baldassarre, Nicola Mucci - University of Florence, University of Rome, University of Silesia

15.50-16.00 *Quantitative estimation of heterogeneous area emissions using drone-mounted thermal camera*

Invernizzi Marzio, Francesca Tagliaferri, Carlo Manganelli, Sironi Selena - Polytechnic University of Milan

16.00-16.10 *The LDAR (Leak Detection and Repair) program as a useful tool for mitigating odorous emissions*

Nicoletta Lotrecchiano, Angelo Pecci and Nicola Zappimbulso - Italian Institute for Environmental Protection and Research

16.10-16.20 *Quantifying the invisible: the role of Quantitative Optical Gas Imaging (QOGI) in characterizing fugitive emissions*

Luca Carrera, Selena Sironi - Polytechnic University of Milan

16.20-16.30 *The NOSE System and odorous emissions: new control strategies*

Paolo Bonasoni, Tony Christian Landi, Francesco Riminucci, Giorgio Veratti, Anna Abita - PROAMBIENTE, CNR-ISAC, ARPA SICILIA

16.30-16.40 *Dynamic olfactometry, from the response to the need to objectively and standardly measure odor concentration, to the birth of the Italian PT (n-Butanol)*

Claudio Carrer, Claudio Carbone, Loretta Gallochio Maria Teresa Palermo, Alessandro Battaglia, Ivano Battaglia - Labservice analytica Srl, ENEA

16.40-16.50 *Experimental determination of SROM values for improved accuracy of olfactometric measurement*

Elisa Polvara, Giacomo Domenico Scolieri, Marzio Invernizzi, Selena Sironi - Polytechnic University of Milan

16.50-17.00 *Integrated approach for identifying sources of odor nuisance in a complex area in Brühl/Hürth (Germany) using Ortelium tools for Complaint Management and Back Trajectories*

Lucrezia de Gennaro, Martino Amodio, Antonio Dipalma, Dr. Ralf Both, Katrin Kwiatkowski, Lenviros Srl - LANUV NRW

17.00-17.10 *Integrated continuous treatment and control of odorous emissions: instrumental odor monitoring on mobile activated carbon filters*

Magda Brattoli, Federico Cangialosi, Damiano Gatto, Antonio Fornaro, Martino Giannuzzi, Enrico Valtancoli - TECNOLOGIA & AMBIENTE Srl, DESOTEC INTERNATIONAL NV, Labservice analytica Srl

17.10-17.20 *Management of odorous emissions in a bituminous conglomerate plant: a case study in Emilia-Romagna*

Davide Varini, Valeria Vecchi - Arpae Emilia-Romagna

17.20-17.30 *AirAdvanced® Sentinel: Integrated solution for air quality and odor monitoring in industrial settings*

Alessio D'Allura, SUEZ Arianet srl

17.30-17.35 **Poster session**

17.35-17.40 Conclusions

Wednesday 5  
November

14:00 - 18:00

Mimosa Room Hall B6

International  
Cooperation and  
Partnerships with  
Mediterranean and  
Africa  
[Click here](#)

What bioeconomy for the next generation? Education, innovation and entrepreneurship opportunities across the Mediterranean and Africa

**Organized by: Comitato Tecnico Scientifico Ecomondo & Cluster Italiano della Bioeconomia Circolare**

Language:: English

The engagement of youth in the bioeconomy is crucial, because they will manage the earth's ecosystems in the future. Lack of decision-making power are barriers to youth participation in the bioeconomy. The future of the worldwide bioeconomy will be strongly influenced by the migration of young people from rural to urban areas and the ageing of the rural population. Attractive jobs and living environments must be created in rural areas in order for young people to return and remain there. Education must adequately prepare youth with interdisciplinary knowledge and skills for the bioeconomy, including ICTs and STEM.

On the other hand, young bioeconomy entrepreneurs need to be helped to overcome barriers such as lack of access to finance, investment and markets, but also scarce knowledge of regulations and procedures. Central to entrepreneurship is fostering international collaboration and cooperation. Italy is the largest EU Country located in the core of the Mediterranean Sea, and it has recently launched the Mattei Plan aimed at implementing joint projects with Algeria, the Democratic Republic of Congo, Egypt, Ethiopia, Ivory Coast, Kenya, Morocco, Mozambique and Tunisia, particularly in the fields agriculture and food security, water and energy, health, education and training. To create appropriate instruments and stimulate the development of a sustainable and equitable bioeconomy, initiatives will be co-designed in collaboration with local communities and in synergy with ongoing European initiatives.

Currently, more than 65% of the population in the southern Mediterranean and East Africa depend on biological resources for food, energy, medicine and other uses. However, the overall production of biological resources in these areas is declining due to the adverse effects of climate change, soil degradation, and biodiversity loss. These same countries often use biological resources in their raw form and dispose of a significant proportion of them as biological waste, losing value and causing environmental problems. Such natural resources have the potential to be used and transformed more efficiently to produce food and other value-added products, thereby improving food security while creating jobs and linking smallholder farmers to new bio-based value chains. Locating processing facilities close to production areas is seen as the most promising approach to increasing rural employment. Bringing technological innovation to rural areas can help mitigate environmental threats, restore local natural capital and regenerate agriculture. Finally, in the context of an increasingly complex geopolitical landscape, a sustainable and equitable bio-economy can help promote social cohesion and political stability.

The invited speakers and the subsequent debate will raise some key questions: What factors are key to supporting youth employment in the bioeconomy? How youth inclusive are current bioeconomy strategies and related policies? How do current bioeconomy strategies and related policies support young bioeconomy entrepreneurs? Where are the jobs and employment opportunities for youth in the bioeconomy today in the Mediterranean and in Africa? and what are the challenges for the future?

#### 14.30 **Session 1: Case studies**

Chairs:

Lucia Gardossi, University of Trieste and Cluster SPRING

Mario Bonaccorso, Director at Cluster SPRING

*Opportunities for youth in the African bioeconomy: bioeconomy projects on rural and urban bioeconomy*

Gerardin Asengo Mabia, Institut National Polytechnique Félix-Houphouët Boigny (INP-HB), Yamoussoukro, Côte d'Ivoire. Winner of the 2025 edition of Eni Award "Young Talents from Africa"

*The EU BioInSouth project: best practices for sustainable bioeconomy in the Mediterranean. Pierluigi Argoneto, Italian Circular Bioeconomy Cluster (SPRING)*

Kostas Vorgias, National and Kapodistrian University of Athens (NKUA), Greece

Evi Demetriou, Frederick University, Cyprus, Frederick University, Cyprus

*Bridging Knowledge and Action: Educating for a Climate-Smart Bioeconomy*

Fidaa F. Haddad, Senior Programme Officer (Forestry), Team Leader Greening Agriculture Food and Agriculture Organization of the United Nations (FAO), Cairo, Egypt

*Solutions for sustainable economic development from Mediterranean basin to Africa*

Mateja Dermastia, Anteja ECG, Slovenija

*New models of sustainable bioeconomy entrepreneurship in Africa*

Mary Wanjiru Kiragu (Kenya); Tesfayesus Zinare Mamo (Ethiopia), Fondazione E4Impact & Master in African Innovation Leadership (Politecnico di Milano)

#### 15.45 **Round table**

*The future of the bioeconomy in the light of demographic and social challenges in the EU, Italy and Africa*

Chair:

Rosalinda Scalia, Deputy Head of Unit Bioeconomy and Food Systems at European Commission

Participants:

Panagiotis Koronaios, EU Bioeconomy Youth Ambassador, European Commission

Cesar Barraza-Botet, Science and Technology Policy (STP) Division, Directorate for Science, Technology and Innovation, OECD, Paris, France

Marta Gomez San Juan, Office of Climate Change, Biodiversity and Environment. Food and Agriculture Organization of the United Nations, Rome

Serenella Sala, Head of Land Resources and Supply Chain Assessments Unit, European Commission, Joint Research Center

Luisa Mascia, project officer, Circular Bio-based Europe Joint Undertaking - CBE JU. Brussels

**Wednesday 5  
November**

**14:00 - 16:00**

Agorà Blue Economy Hall  
B7

**International  
Cooperation and  
Partnerships with  
Mediterranean and  
Africa**

[Click here](#)

## From Knowledge to Action: Accelerating the Mission Ocean and Waters Implementation in the Mediterranean region

**Organized by: Comitato Tecnico Scientifico Ecomondo & BlueMissionMed CSA, European Commission, CNR-DSSTA, ECORYS, CPMR-IMC, WWF Mediterranean**

Language:: English

Instant translations:: Italian

The second day of the BlueMissionMed MED Bootcamp sets the stage for an in-depth exploration of one of the most strategic pillars of the Mission "Restore Our Ocean and Waters by 2030": knowledge transfer. As the Mission moves from vision to concrete implementation, ensuring that research and innovation effectively reach local action is key to achieving systemic transformation. The event will showcase how strategic knowledge sharing and ecosystem collaboration can accelerate the transition toward a sustainable and resilient Mediterranean.

Participants will be guided through a journey that begins with a high-level framing of the Mission and the role of local and regional actors, followed by a deep dive into BlueMissionMed's tools for transformation. Insights from the Operational Roadmap for a pollution free Mediterranean Sea and a live Solutions4Med pitching session will showcase tangible, innovative practices with strong potential for transferability, investment-readiness, and impact at scale. This event is designed to connect entrepreneurs, investors, foundations, philanthropists, accelerators and innovation ecosystems with actionable ideas, emerging solutions, and financing strategies for Mediterranean sustainability. The session will close with an interactive roundtable on financing frameworks and enabling conditions for uptake.

The objective is clear: to empower Mediterranean actors with the tools, connections, and strategic clarity needed to turn knowledge into action and ensure a lasting legacy through shared implementation pathways.

### **Program**

Moderators:

Stefania Campogianni, WWF Mediterranean

Irene Alonso, Ecorys

Matteo Bocci, Ecorys

## 14.00 Opening Remarks & Welcome

Moderator:

Stefania Campogianni, WWF Mediterranean

*Introduction of Day 2 of the MED Bootcamp at Ecomondo, framing knowledge transfer as a strategic enabler of the EU Mission "Restore Our Ocean and Waters by 2030"*

Simone Quatrini, EC JRC, the Blue Economy Observatory

## 14.10 Knowledge for Action: Priorities, Solutions and Tools for the Mediterranean transformation

Moderator:

Stefania Campogianni, WWF Mediterranean

*Presentation of the BlueMissionMed Report "Depolluting the Mediterranean", as baseline technical criteria essential for the successful transfer and implementation of innovative solutions across the Mediterranean basin.*

The session will feature presentations from leading projects showcasing practical examples and lessons learned:

Luca Ricci, RINA - RHE-MEDIation

Davide Poletto, VLPF - SeaClear2.0 + IPA Adrion Joinable

Fantina Madricardo, CNR ISMAR - Inspire

Discussions will focus on aligning technical priorities, facilitating stakeholder collaboration, and building a shared vision to accelerate regional and national action.

## 14.45 Financing the Transition - A Roundtable for Scaling Up

Moderator:

Matteo Bocci, Ecorys

Keynote:

Delilah Al Khudhairi, Director for Maritime Policy & Blue Economy, DG MARE, European Commission. Blue Mediterranean Partnership (online)

Follow an interactive roundtable among key actors on financing frameworks, business models, and enabling conditions for solution uptake and replication across the Mediterranean.

Speakers:

Marko Pretelin, INFORDATA - TASC-RestoreMed

Adeline Pilon, ELYX Foundation

Francesca Pradelli, IFAN

Yousr Ben Fadhel, BlueSeeds

Elizaveta Borovenskaya, One Ocean Foundation

## 15.20 Solutions4Med and BMM Support Programme - Pitching for Impact

Moderator:

Irene Alonso, Ecorys

*Presentation of BlueMissionMed Support Programme and pitches of the 3 high-potential solutions by innovators from the Mediterranean ecosystem.*

Focus:

- Scalable technologies and practices
- Nature-based and social innovations
- Transferability and investment-readiness

Pitch of 4 Solutions:  
Luca Rinaldi, CLASSWASTE  
Sorina Uleia, Recyclux  
Marwen Mokdad, POLYCHAETA  
Sylvalgae (TBD)

Francesca Pradelli, IFAN and Yousr Ben Fadhel, BlueSeeds will attend as panelists and interact with the BlueMissionMed pitchers.

15.55 Closing Remarks  
Loïc Blanchard, European Commission, DG RTD

*Wednesday 5  
November*  
14:00 - 15:00

Textile District -  
Workshop Area Hall B3

**Sustainable and  
Circular Textiles**  
[Click here](#)

## Waste Shipment Regulation and its impact on the global market for post-consumer textiles

**Organized by: Ecomondo & UNIRAU**

Language:: Italian

The new Regulation on Waste Shipments aims to:

- ensure that the EU does not export its waste challenges to third countries and contributes to environmentally sound management of waste;
- strengthen enforcement to prevent illegal shipments of waste within the EU and from the EU to third countries;
- increase the traceability of waste shipments within the EU and facilitate recycling and reuse, in line with the circular economy.

The new Waste Shipments Regulation officially entered into force on 20 May 2024; however, most of its provisions will apply from 21 May 2026, with the majority of export rules becoming applicable from 21 May 2027.

The panel discussion will focus on the implementation of the regulation, particularly its role in advancing circularity within the global textile market and ensuring transparent and compliant export practices.

The session will explore major challenges associated with exporting second-hand clothing to the Global South, while also highlighting the positive contributions this trade has made in numerous countries.

### **Program**

Moderator:  
Karina Bolin, Humana People to People Italy

Introduction by the moderator

*Implementation of the WSR: sector readiness and challenges*  
Paolo Campanella, Secretary General, FEAD

*The Basel Convention: waste exports and the need for clear definition and custom codes*  
Hannah Parris, Research Associate, University of Cambridge

*Customs Agencies and the WSR: towards more effective controls for textile waste exports*  
Tiziana Satta, Funzionario Direzione Dogane Uff. Controlli, Agenzia delle Dogane e dei Monopoli

*Transparency in the post-consumer textiles waste value chain: the role of the Multiutilities*  
Melina Glorioso, Senior Environmental Specialist Engineer, Utilitalia

Wednesday 5  
November  
14:15 - 18:00

Neri 2 Room South Hall

Policies and Regulatory  
Frameworks  
[Click here](#)

## Technical seminar: Waste management and regulatory changes for 2025

**Organized by: Comitato Tecnico Scientifico Ecomondo & Edizioni Ambiente e "Rifiuti - Bollettino di informazione normativa" magazine**

Language:: Italian

### Registration closed

Once again, this year, the Technical-Scientific Committee of Ecomondo, along with the magazine "Rifiuti-Bollettino di informazione normativa" and ReteAmbiente, offers the usual and eagerly awaited overview of the most important legislative and regulatory updates that in 2025 have emerged in the complex operational scenario.

The presentation of new developments, however, also during this edition of Ecomondo, does not preclude an in-depth examination of topics that, although not recent, have reached a significant degree of applicative complexity over the years.

### Session Chair

Paola Ficco, Lawyer, Jurist in Environmental Law and Editor in Chief of the Magazine "Rifiuti - Bollettino di informazione normativa"

### Program

14.00 Accreditation of participants and commencement of the activities

14.30 *The circular economy and MASE actions*

Luca Proietti, Directorate General Circular Economy of the Ministry of Environment and Energy Security (MASE)

14.50 *Protection and Energy Security in Venice*

Lieutenant Colonel Enrico Risottino, Commander of the Carabinieri Group for Environmental

15.10 *The problem of odours in waste management*

Gaetano Settimo, National Indoor Pollution Study Group (GdS) of the Istituto Superiore di Sanità (ISS)

15.30 *The industrial valorisation of by-products*

Laura Cutaia, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development), Dipartimento Sostenibilità dei Sistemi Produttivi e Territoriali

15.50 *The by-product and normal industrial practice between reality and fantasy*

Paola Ficco, Lawyer - Jurist in Environmental Law - Editor in Chief of the Magazine "Rifiuti - Bollettino di informazione normativa"

16.10 *The main impacts on companies of the new Ministerial Decree on Excavated Soil and Rocks*

Andrea Sconocchia, Arpa Umbria

16.30 *How to accept waste in recycling plants, recommended procedures and suggestions for improvement*

Paola Muraro, Director ATIAISWA ITALIA

16.50 *Cybersecurity business adaptation and organisational impacts*

Milena Cirigliano, Advocate - Compliance Officer, DPO - Gruppo Api

17.10 *RENTRI, an initial assessment*

Daniele Gizzi, President of the National Register of Environmental Operators

17.30 *The point on traceability*

Daniele Bagon, Secretary of the Liguria Regional Section of the National Register of Environmental Operators

17.50 *Conclusions*

Pasquale Fimiani, Advocate General at the Supreme Court of Cassation

**Wednesday 5  
November**

**14:15 - 17:45**

Agorà Fellini - Sites & Soil  
Restoration Area Hall C1

**Sites and Soil  
Maintenance and  
Restoration**  
[Click here](#)

Sustainable management and reuse of sediments from artificial reservoirs for the development of a circular economy

**Organized by: Comitato Tecnico Scientifico Ecomondo & Associazione Geotecnica Italiana – Sezione AGI-IGS, Italian Commission on Large Dams (ITCOLD)**

Language:: Italian

The artificial reservoirs that are formed upstream of the dams, lose part of their storage capacity over time due to silting caused mainly by the sedimentation of solid material transported by the waters flowing into the reservoir.

This conference deals with the topic of the evaluation of the industrial destinations of potential reuse of the sediments present in reservoirs, their actual consumption and the technical necessary requirements, starting from an analysis by geographical regions of reservoirs, with reference to the current situation of silting and the industries present; are also identified possible alternative uses to industrial applications (release into rivers downstream of the dam, coastal nourishment, agricultural use, river banks, etc.).

Specific case studies are also presented.

### **Session Chairs**

Daniele Cazzuffi, CESI SpA, Milano & President AGI-IGS

Nicola Moraci, University Mediterranea Reggio Calabria & Vice President AGI-IGS

Rosella Caruana, Italian Commission on Large Dams (ITCOLD)

Francesco Fornari, Italian Commission on Large Dams (ITCOLD)

### **Program**

14.15 Registration of participants

14.30 *Introduction*

Daniele Cazzuffi, CESI SpA, Milano & President AGI-IGS

Nicola Moraci, University Mediterranea Reggio Calabria & Vice President AGI-IGS

Rosella Caruana, Italian Commission on Large Dams (ITCOLD)

Francesco Fornari, Italian Commission on Large Dams (ITCOLD)

14.45 **Keynote Speeches**

14.45 *Technical and economic evaluation of sediment management and reuse*

Roberto Saccone, ITCOLD

15.05 *Agricultural uses*

Paolo Manfredi, Ecosistemi

15.25 *Coastal nourishment*

Lorenzo Cappiotti, Dip.Ingegneria Marittima Università di Firenze

15.45 *Reuse of sediments in quarries*  
Valentina Passeri, CESI SpA, Placenza

#### 16.05 **Case Histories**

16.05 *Use of geotextile containers for sediments dredging*  
Matteo Mollo, Geosintex & AssINGeo

16.25 *Geosynthetics for the environmental recovery of sediments: the case history of Gaeta*  
Salvatore Miliziano, "Sapienza" Università di Roma

16.45 *Analysis of characteristics and chemical-physical properties of sediments*  
Chiara Zanelli, ISSMC-CNR

17.05 *Sediment reuse cases in the precast industry*  
Federico Vecchio, Politecnico Torino  
Eleonora Longo, Gruppo Marazzato  
Alice Zenone, Gruppo Marazzato

17.25 Discussion and conclusions

*Wednesday 5  
November  
14:30 - 17:00*

Circular & Healthy City  
District - Workshop Area  
Hall D3

**Circular and Healthy  
Cities**  
[Click here](#)

Smart Circular Cities. Smart technologies to meet the challenges of circular transition in urban settings

#### **Organized by: Comitato Tecnico Scientifico Ecomondo**

Language:: Italian

The adoption of circular models for territorial development and resource management presents serious challenges for cities, which must increasingly ensure efficient use of resources (land, water, energy), effective waste management (including monitoring of collection and disposal, and urban mining), in order to reduce environmental impact, and an ongoing commitment to encouraging low-impact mobility that makes streets safer, more inclusive and livable places. Another key priority is the regeneration and enhancement of disused areas.

The use of interoperable systems and smart platforms based on AI, IoT, and GIS technologies represents one of the key strategies to implement circular transition processes and make urban environments more efficient and sustainable.

In this session, a panel of academic experts, practitioners and promoters of enabling technologies will address these and other challenges posed to decision-makers and public administrators by the need to rethink territories and their management, according to an approach consistent with the principles of the circular bioeconomy.

#### **Session Chairs**

Carlo Alberto Nucci, National Representative EU Mission Climate Neutral and Smart Cities  
Danila Longo, University of Bologna  
Gabriella Scipione, CINECA

#### **Program**

14.30 Introduction by the Chairs

14.40 **PART I - Enabling Technologies**

### **Session Chair**

Gabriella Scipione, CINECA

### **Program**

*AI and technology platforms serving the cities*

Sabrina Outmani, URBAN SQUARE - Destination Earth

*Bologna Digital Twin*

Chiara Della Casa, CINECA

*EVOCity the Smart City Platform*

Mauro Di Giamberardino, Technical Manager, Smart City Area, Gruppo Maggioli

*Inclusive technologies to improve well-being in the city*

Lorenzo Landolfi, PhD, Italian Institute of Technology

*Urban quality, ecological transition and digital innovation*

Francesco Di Costanzo, President of Fondazione Italia Digitale

## **15.30 PART II - Land and city management and security (urban regeneration, suburban rehabilitation, urban green, smart districts)**

### **Session Chair**

Danila Longo, University of Bologna

### **Program**

*TALEA Green Cells Project*

Mauro Bigi, Fondazione Innovazione Urbana Rusconi Ghigi - Bologna

*Safecities Project*

Umberto Battista, STAM - Genova

*Regenerative urban systems. Transforming local urban food systems through the creation of Food Value Systems*

Francesco Orsini, University of Bologna

Michele D'Ostuni, Università di Bologna

## **16.10 PART III - Climate resilience and resource management**

### **Session Chair**

Carlo Alberto Nucci, National Representative EU Mission Climate Neutral and Smart Cities

### **Program**

*Smart grid and REC*

Alberto Borghetti, University of Bologna

Marco Costa, AESS

*Data platforms, IoT, AI for climate resilience and socio-economic vulnerability in cities and buildings (Climres projects - MULTI-faceted CLIMate adaptation - ReCity - Resilient City- Everyday Revolution)*

Gian Marco Revel, Marche Polytechnic University

*Circular transition of cities and communities (City Centres as Places of Circular Lifestyle) - NICE Project*

Sara Cortesi, ENEA

*Smart Digital Reality brings you beyond*

Maurizio Granata, HEXAGON

Wednesday 5  
November

14:30 - 16:30

Ravezzi 1 Room South  
Hall

Education and  
Communication  
[Click here](#)

## Forum of Responsible Communication – Sustainable or Competitive? How Communication Resolves a False Dilemma

**Organized by: Ecomondo & FERPI**

Language:: Italian

Instant translations:: English

**Technical partner: Amapola**

Does being sustainable mean giving up competitiveness? This is the question—explicit or implicit—that runs through public debate, the business world, and policy decisions today. And yet, data, research, and real-world experiences tell a different story: one of companies that innovate because of sustainability, that strengthen their market position by adopting ESG strategies, that attract new talent and build trust through transparency. And, notably, they are better prepared to face the climate crisis.

The 2025 Forum of Good Communication starts here, tackling one of the key issues of our time: how communication can help overcome misleading narratives, generate trust, and promote a new vision of development.

Representatives from the worlds of science, communication, and journalism, together with corporate leaders, will engage in an open and practical dialogue about tools, metrics, and communication strategies—demonstrating that sustainability and competitiveness can—and must—go hand in hand.

### **Event promoted by:**

Ecomondo, FERPI, the Ministry of the Environment and Energy Security, and the Order of Journalists of Emilia-Romagna.

Participation in the event qualifies for continuing education credits for journalists.

### **Program**

#### ***Institutional Greetings***

Filippo Nani, President of FERPI

Alessandra Astolfi, Global Exhibition Director, Green & Technology Division, Italian Exhibition Group

Fiorella Corrado, Head of Press Office and Communication, Ministry of the Environment and Energy Security

Representative of the Order of Journalists of Emilia-Romagna (TBD)

#### **Dialogue 1**

##### ***Truth, Trust, Conflict: The Challenge of Scientific Communication in the Age of Complexity***

Bruno Mastroianni, Content creator, journalist, philosopher, and author  
in conversation with

Giuliano Greco, Director of Communication and External Relations, Italian Institute of Technology (IIT)

#### **Dialogue 2**

##### ***Crisis, Equity, Trust: Sustainability Depends on Addressing Real Needs***

Aurora Audino, Senior Officer, Executive Office, Sustainable Energy for All (SEforALL)  
in conversation with

Federico Ferrazza, Director of Green & Blue, GEDI

Dialogue Moderator  
Sergio Vazzoler, "Responsible Communication" Committee, FERPI, and Co-Founder of Amapola

### **Roundtable Discussion**

#### ***Unmasking False Dilemmas: A Team Effort***

Moderator:

Fiorella Corrado, Head of Press Office and Communication, Ministry of the Environment and Energy Security

With contributions from:

Massimiliano Pontillo, Pentapolis, Eco in città, Ultima Bozza

Giovanni Mori, Lifegate

Chiara Bolognini, ISPRA

Marzia Chiesa, Sodai & AssoESG

Damla Özlüer, Do Not Smile International Network

*Wednesday 5*

*November*

*14:30 - 17:00*

Ravezzi 2 South Hall

**Resource Efficiency and  
Circular Economy**

[Click here](#)

Circular economy act and the new European challenges to combine sustainability, competitiveness and resource efficiency

#### **Organized by: Comitato Tecnico Scientifico Ecomondo & Utilitalia**

Language:: Italian

Instant translations:: English

The Draghi report on the future of competitiveness and the Letta report on the internal market have outlined new challenges for Europe, recognizing the strategic role of the circular economy in the path towards energy transition and decarbonization. Moreover, improving circularity means improving one's competitiveness, efficiency in resource management, and strategic autonomy with respect to their procurement. To pursue these objectives, the European Commission is working on the "Circular Economy Act". The legislative proposal, starting from the problem of scarce resource availability and acknowledging the global level at which companies now compete, will have to provide the necessary tools to fully develop, thanks to integration in the single market, the potential of European industry in the circular economy sectors. Through an open discussion among all actors in the supply chain (institutions and industry), the conference aims to reflect on possible enabling factors for this transition.

#### **Session Chair**

Alberto Ferro, Executive Board Utilitalia

#### **Program**

Introduction and coordination by the Session Chair

Alberto Ferro, Executive Board Utilitalia

Opening

Bruno Manzi, Coordinator of the Environment Directorate, Utilitalia

*Enhancing the contribution of recycling to energy efficiency and decarbonization*

Luca Mariotto, Director of the Environment Sector Utilitalia

Mario Jorizzo, Head of Circular Economy Division, Department of Sustainability, Circularity and Adaptation to Climate Change of Production and Territorial Systems, ENEA

### *European session*

Stefano Soro, Head of Unit Net Zero Industries, Sustainable and Circular Products, DG GROW, European Commission

Ioannis Bakas, Circular Economy Monitoring Expert, Sustainability Department, European Environment Agency

Federico Foschini, President Municipal Waste Europe

Claudia Mensi, President FEAD

Jori Ringmann General Director, Confederation of Industrial Paper Industry (CEPI)

### *National session*

Laura D'Aprile, Head of Department for Sustainable Development Ministry of Environment and Energy Security

Vinicio Mosè Vigilante, Chief Executive Officer of GSE

Carlo De Iulis, CEO Cartesar Spa

Elena Maggioni, a2a Ambiente

Roberto Conte, CEO IBLU

### *Conclusions*

Lorenzo Perra, Vice President Utilitalia

**Wednesday 5  
November**

**14:30 - 16:00**

Agorà Ariminum -  
Circular Economy Area  
Hall D1

**Resource Efficiency and  
Circular Economy**  
[Click here](#)

## Recycling of Absorbent Personal Products (PAP) and Extended Producer Responsibility (EPR): state of the art and prospects

### **Organized by: Comitato Tecnico Scientifico Ecomondo & Legambiente**

Language:: Italian

The National Recovery and Resilience Plan (PNRR) is an important opportunity to accelerate the achievement of the ambitious global and European objectives for 2030 and 2050, which aim to progressively and completely decarbonise the system and strengthen the adoption of circular economy solutions. This scenario includes the projects relating to the creation of innovative treatment/recycling plants for absorbent materials for personal use (PAD).

In Europe, every year, approximately 8.5 million tonnes of these materials (including diapers and incontinence pads) end up in a landfill or in an incinerator, 900,000 tonnes per year in Italy alone. Now, in our country, over 16 million citizens already have access to PAP separate waste collection services, with a very strong growing trend. The introduction of Extended Producer Responsibility (EPR) for Personal Absorbent Products (PAP) is a fundamental step towards closing the loop, making citizens and producers responsible and making the supply chain economically self-sufficient.

### **Session Chairs**

Andrea Minutolo, Legambiente

### **Program**

14.30 Introduction by the Chairs (Presentation of the Research on EPR)

14.50 Speakers:

Paolo Contò, Consiglio di Bacino Priula

Andrea Favaledda, Contarina

Maurizio Barbati, ESA-Com

Ugo Salvoni, Ascit

Marcello Somma, I-Foria

15.50 Q&A session

16.00 Closure by Stefano Ciafani, President of Legambiente Nazionale

Wednesday 5  
November

16:00 - 17:30

Diotallevi 1 Room South  
Hall

Policies and Regulatory  
Frameworks  
[Click here](#)

The environmental impact of offshore wind energy sector and emerging waste from renewable energy sources

**Organized by: Commissione Parlamentare di inchiesta sulle attività illecite connesse al ciclo dei rifiuti e su altri illeciti ambientali e agroalimentari**

Language:: Italian

### Program

Moderator:

Federica Mosconi, Journalist at Teleromagna TV

16.00 Institutional greetings in the presence of the Deputy Minister of the Environment and Energy Security Honorable Vannia Gava

Introduction by the President of the Italian Parliamentary commission of inquiry into illicit activities related to the waste cycle and environmental and agri-food crimes, Honorable Jacopo Morrone

16.10 *So-called "emerging" waste from renewable energy sources: regulatory sources and general aspects*

Leonardo Salvemini, Lawyer and contract Professor of Environmental Law at the State University of Milan

16.20 *Offshore wind energy and its comparison with the tourism industry*

Vincenzo Leardini, Hotel industry entrepreneur from Emilia Romagna

16.30 *Violations relating to waste from renewable sources*

Enrico Al Mureden, Lawyer and Full Professor of Private Law; University of Bologna - Law department

16.40 *Focus on energy communities*

Luigi Balestra, Lawyer and Full Professor of Private Law; University of Bologna - Law department

16.50 *Circumvention of regulations on waste from renewable energy sources*

Monica Galassi, Magistrate, President of the Criminal Section in the Court of Forlì

17.05 *The growth of renewable energy sources in Italy. Public funding and end-of-life management*

Paolo Arrigoni, President of GSE - Energy Services Manager S.p.A.

17.15 Conclusions by the President of the Italian Parliamentary commission of inquiry into illicit activities related to the waste cycle and environmental and agri-food crimes, Honorable Jacopo Morrone

Wednesday 5  
November

16:30 - 18:00

Innovation Arena - South  
Hall

Sustainable and  
Circular Textiles  
[Click here](#)

Made in Italy Textile Industry challenges and opportunities in a circular economy perspective: what's next?

**Organized by: Comitato Tecnico Scientifico Ecomondo & AISEC (Associazione Italiana per lo Sviluppo dell'Economia Circolare)**

Language:: Italian

The textile industry is undergoing profound changes, accelerated by economic, environmental, technological, and geopolitical factors. In this fast-evolving landscape, the urgency to redesign traditional models is becoming clear. Circular Economy principles, traceability, and sustainable innovation are no longer optional - they are essential for resilience and competitiveness.

Key questions:

1. How can the Italian textile industry and its supply chain thrive in a global context where consolidation favors large players and puts smaller ones at risk?
2. What does it take to build an ethical, transparent, and traceable supply chain that aligns with both compliance and consumer expectations?
3. How can we accelerate digital transformation to ensure end-to-end traceability and data-driven decision making?
4. Is it still possible — and how — to foster stronger partnerships among brands, NGOs, producer associations, and institutions to drive systemic change?

The next frontier of Sustainability in textiles calls for bold innovation, regulatory alignment, and the adoption of new, regenerative circular business models. To explore these priorities, we invite leading experts and stakeholders to share insights and strategies on:

1. Evolving regulations and industry standards (EUDR, ESPR, CSDDD)
2. Sustainable and next-gen materials
3. Ethical and fair labor practices across global supply chains
4. Scalable circular business models, like repair, rental, resale
5. Technological innovation and digital tools for full supply chain traceability

### **Session Chair**

Eleonora Rizzuto, Founder & President AISEC, Chief Sustainability & Due Diligence Officer Bulgari/LVMH Group

### **Program**

Introduction by the Chair

Ministry of Enterprises and Made in Italy Institutional Greetings

*Camera della Moda*

Carlo Capasa, President

*ICESP Platform*

Eleonora Foschi, ENEA - Fashion table of Regione Emilia Romagna

*Studio Chiomenti*

Guido Bellitti, Partner

*Digital revolution*

Rinaldo Rinaldi, Scientific Director of eP Summit, University of Florence

Valerio Barberis, barberis & partners, Coordinator Agenda Urbana 2050 Comune di Brescia, Assessore Urbanistica, Ambiente, Economia Circolare Comune di Prato (2014-2024)

Raffaella Arista, Studio Legale Improda - Avvocati Associati

Attila Kiss, CEO Gruppo Florence

Jeremy Huynh, Environment Direction Louis Vuitton

Alessandra Lobba, CSO Agnès B.

Michele Petrone, Gruppo HERA

Matteo Mantellassi, CEO Manteco SpA

Francesco Freschi, Chief Executive Officer, Etro

Valeria Magnolsi JRC  
Alfio Fontana, Humana

Discussion and closure by the Chairs

Wednesday 5  
November  
16:30 - 18:30

Agorà Blue Economy Hall  
B7

Water Cycle and Blue  
Economy  
[Click here](#)

## Virtuous models and good practices to collect, recycle and reuse marine litter

**Organized by: Comitato Tecnico Scientifico Ecomondo & Università di Padova, Legacoop Agroalimentare Nord Italia, Cooperativa MARE**

Language:: Italian  
Instant translations:: English

The recycling and reuse of marine litter is an increasingly urgent issue, and several virtuous models and best practices are emerging across the planet. These models not only help reduce marine pollution but can also contribute to developing a circular economy that benefits the community and the environment. Many fishermen in Europe are actively involved in the collection of marine litter during their daily activities and this is of fundamental importance because, in addition to reducing marine pollution, it encourages the direct involvement of local communities.

Starting from projects already completed and those underway, the event will tend to explore initiatives and good practices related to:

- The creation of recycling centers in ports. All ports can be transformed into specialized collection points for marine litter. These centers, with the support of local administrations, multiutilities and NGOs, can separate and treat the recovered waste, differentiating it by material and thus facilitating recovery and recycling;
- Innovative use of marine litter. The transformation of plastic into new products. Plastics recovered from the sea are transformed into new materials through upcycling processes. For example, some companies and startups have developed technologies to transform abandoned fishing nets (ghost nets) and other recovered plastics into objects such as glasses, socks, accessories, or even fabrics for the fashion industry;
- New fishing gear. Some countries are developing economic models based on the reuse of marine litter, creating small and medium-sized businesses that transform collected waste into new resources. In Iceland, for example, some cooperatives are working with abandoned fishing nets to produce new materials for the construction of fishing gear.
- Creating markets for recycled materials. Creating markets for recycled materials from the sea (such as plastic, fishing nets, and metal) is becoming increasingly important. Some certification programs can help ensure that recycled materials are used responsibly and are recognized in the market.

Marine litter management is a complex issue, but through a combination of innovative technologies, responsible public policies, and good practices in the fisheries sector and port management, it is possible to create virtuous models that not only combat marine pollution but also contribute to the development of a circular economy.

### Session Chair

Massimo Bellavista, Legacoop Agroalimentare, Project Manager Laboratori del Mare Cooperative

### Program

16.30 Introduction by the Chairman, Massimo Bellavista

16.45 Intervention by Anna Montini, Blue Economy Councillor of Rimini Municipality

17.00 *Waste Management in fishing ports: policy review between Italian and Croatian Ports*

17.30 *Croatian best practice for the marine litter*

Matko Bašić, Technical Director Cian

17.40 *Cleaning the Adriatic Sea*

Luca Barani, Sea The Change

17.50 *LAB-MAR: laboratory for the prevention and recovery of marine litter*

Maria Caldero, Fundacion Fundamar

18.00 *The Italian policies against marine litter*

Simona Rossi, Italian Ministry of Environment and Energy Security

18.10 Speech by Dubravka Bojanić Varezić, Institute of Oceanography and Fisheries, Split, Croatia

Discussion and closure by the Chairman

Wednesday 5

November

16:30 - 17:30

Diotallevi 2 Room South  
Hall

Research and  
Innovative Start Up  
[Click here](#)

## Green Assist: Unlocking your green investment projects

**Organized by: European Climate, Infrastructure and Environment Executive Agency (CINEA), Commissione Europea**

Language:: English

Discover how Green Assist's expert advisory services have supported in 3 years over 100 innovative investment projects in biodiversity, circular economy, and natural capital, driving high environmental impact and emerging bioeconomy solutions. Find out how it can help unlock the full potential of your project, too.

### Session Chairs

Krzysztof Dziecielak, Financial Engineering Adviser, CINEA

Giuseppe Spanto, Managing Director and Board Member, IsCleanAir

Fabio Galatioto, Chief Technology Officer, IsCleanAir

### Program

Welcome and opening remarks

*Impact snapshot of three years of Green Assist*

*First-hand beneficiary story*

*How Green Assist works*

Q&A with the audience

**Thursday 6  
November  
10:00 - 13:00**

Agorà Augusto -  
Bioeconomy Area Hall D1

**Circular and  
Regenerative  
Bioeconomy**  
[Click here](#)

Fertilizers from sewage sludge: production, quality and applications

**Organized by: Comitato Tecnico Scientifico Ecomondo & Utilitalia, Assoambiente, CIC**

Language:: Italian

Soil health and fertility are increasingly affected by anthropic activity that act on the quality of the environment, and in particular on climate change. In this context, it is of utter importance to preserve all possible sources of organic carbon and nutrients for soil and crops, including sewage sludge. The conference aims to provide an update on the production and applications of sludge based fertilizers, on their characteristics and agronomic properties, as well as highlight the quality requirements necessary to guarantee their safe and environmentally friendly use.

## Session Chair

Massimo Centemero, Managing Director CIC

## Program

10.00 Introduction of Session Chair: FORUM Biosolid to Soil activity

10.15 Speech of Alberto Confalonieri, Technical Committee CIC

10.30 Speech of Andrea Lanz – ISPRA

10.45 Speech of Fabrizio Adani, University of Milano – DISAA

11.00 *Round Table*

Speakers:

Tiziana Vona, CIC, Cisambiente

Tania Tellini, UTILITALIA

Elisabetta Perrotta, Assoambiente

11.40 *Fertilizers from sewage sludge: the state of the art and new evidence from the world of research*

*Hydrocarbons, compost, and sludge: limits and methodological issues*

Tiaziano Vendrame, ARPAV (Veneto Regional Agency for Environmental Protection and Prevention)

*The modeling approach in defining a risk factor for the use of fertilizers on agricultural soils*

Filippo Robbiati, Andrea N. Rossi, A. V. Berri, Progress S.r.l.

12.30 Discussion and conclusions by the Chair

Thursday 6  
November

10:00 - 12:30

Agorà Blue Economy Hall  
B7

International  
Cooperation and  
Partnerships with  
Mediterranean and  
Africa  
[Click here](#)

## Blue Horizons: Trans-Mediterranean Cluster Collaboration for Innovation in Energy, Clean Tech, and Bioeconomy

**Organized by: Comitato Tecnico Scientifico Ecomondo & Cluster BIG Blue Italian Growth**

Language:: English

RICONOSCIUTI **2 CREDITI FORMATIVI PROFESSIONALI** PER L'[ORDINE DEGLI INGEGNERI](#)

Blue economy clusters play a pivotal role in driving innovation and strengthening both the scientific and industrial landscape, driving growth and sustainability in the Mediterranean region in high priority sectors.

Following the triple helix model for innovation, Clusters serve as essential facilitators of technology transfer in sectors such as bioeconomy, energy, and clean tech by bridging the gap between academic research, industrial applications, and government policies. Given the great potential, promoting cooperation among clusters at a transnational level can maximise the development of sustainable technologies, enhance market competitiveness, and drive research commercialisation across borders.

In this session, we will hear from key actors representing the triple helix model across Mediterranean countries, involving actors from northern and southern shore of the Mediterranean, emphasizing the importance of a collaborative approach to advancing innovation and sustainability in the energy, clean tech, and bioeconomy sectors, with the ultimate aim to highlight common priorities and explore new fields of cooperations.

### Session Chairs

Giorgio Ricci Maccarini, President National Technological Cluster BIG - Blue Italian Growth  
Luca Marangoni, CINEA

### Program

10.00 Introduction by the Chairs

10.10-10.40 **Government policies and priorities towards transnational cluster cooperation**

10.10-10.20 *Strategy for Enhancing Transnational Cluster Cooperation in the Mediterranean Blue Economy*

Luca Marangoni, CINEA

10.20-10.30 *UfM roadmap: cross-border cooperation in the Mediterranean*

Alessandra Sensi, Head of Sector Environment, Green and Blue Economy, Union for the Mediterranean

10.30-10.40 *Boosting cluster cooperation: emerging funding opportunities*

Leonardo Manzari, National Hub Coordinator for Italy, WestMED Clusters Alliance

10.40-11.10 **The role of clusters in academia-industry collaboration for innovation in bioeconomy, energy, and clean tech**

10.40-10.50 *Catalyzing Innovation in the Blue Economy through Clusters: Connecting Universities, Young and Industry around Clean Technologies — The Case of the Tunisian Maritime Cluster*

Emna Sohlobji, President CMT

10.50-11.00 *Advanced technology solutions through research-industry cooperation*

Gregory Yovanof, Managing Director, Strategis Maritime Center of Excellence

11.00-11.10 *Maritime Clusters: Bridging Innovation and Finance*  
Laurence Martin, Federazione del Mare

11.10-11.40 ***Clusters as enablers of Industrial Applications and Market Competitiveness in the Blue Economy***

11.10-11.20 *Enabling clean technologies and sustainable practices in the blue economy market*  
Nesrine Ziad, Co-founder, Leancubator Algeria

11.20-11.30 *Regional Alliance Platform to promote and support industrial processes*  
Lorella Ciuti, EU Project Manager Forum Oceano

11.30-11.40 *Clusters Empowering Innovation: best practice in Blue Ecosystem project*  
Stefano Valentini, AR-TER S. cons. p. a.

11.40 Discussion and closure by the Chairs

Thursday 6  
November  
10:00 - 13:00

Neri 2 Room South Hall

**Policies and Regulatory  
Frameworks**  
[Click here](#)

Circular Economy in the Clean industrial deal: end of waste and byproducts

**Organized by: Comitato Tecnico Scientifico Ecomondo & ISPRA**

Language:: Italian

On 26 February 2025, the European Commission launched the Clean Industrial Deal: a joint roadmap for competitiveness and decarbonisation that includes the strengthening of circularity as a fundamental tool for creating a new European industrial model. A regulatory act is expected to be issued in 2026, aimed at harmonising end of waste criteria in order to facilitate the transition from waste to secondary raw materials, to simplify, digitise and specifically expand *extended producer responsibility*, stimulating demand through specific criteria for public procurement.

Among the aspects of primary importance, in the field of sustainability and circularity, there are, moreover, the principles of ecodesign, for the design of products that are more durable and easier to manage once they become waste to increase their recyclability or renewability.

The day intends to start with an analysis of the state of the art to address, with the main players in the sector, the issues that today represent the main factors holding back the full development of circularity.

### Session Chair

Valeria Frittelloni, Head of Department of Environmental Assessment, Monitoring and Sustainability, ISPRA

### Program

#### *Opening remarks*

Jacopo Morrone, President of the Bicameral Commission of Inquiry into illegal activities in the waste cycle and other environmental and agri-food crimes

#### Speakers:

Francesca Fanti, General Direction Circular Economy and Remediation, Italian Ministry of Environment and Energy Security  
Anna Lutman, General Director ARPA Friuli-Venezia Giulia and Vicepresident SNPA (National System for Environment Protection)  
Francesca Mariotti, President of ENEA  
Andrea Massimiliano Lanz, Head of the National Centre for Waste and Circular Economy of ISPRA  
Michele Cenci, Head of Environmental Sustainability Service, Environmental Assessments and Permissions, Umbria Region  
Vito Bruno, Director General Arpa Puglia  
Luca Mariotto, Environment Section Director Utilitalia (Italian federation of energy, water and environmental services)  
Caterina Mancusi, Confindustria (General Confederation of Italian Industry)  
Elisabetta Perrotta, Director Fise Assoambiente

#### Closure

Giorgio Gori, European Parliament

Thursday 6  
November

10:00 - 13:00

Diotallevi 1 Room South  
Hall

**Policies and Regulatory  
Frameworks**  
[Click here](#)

## Waste regulation towards European targets: update, consolidation, and vision

### **Organized by: Comitato Tecnico Scientifico Ecomondo & Utilitalia**

Language:: Italian

2026 will be the year of the completion and consolidation of regulation in the waste sector. In addition to the planned update of the tariff method (MTR-3) and the regulation of technical quality, the Authority will also regulate unbundling and user fees. In this renewed context, the discipline on calls for tenders will also be completed. For the first time, therefore, the regulatory discipline will be applied in its entirety, over the entire span of the waste management process: from the drafting of calls for tender to the formulation of fees; generating the conditions of consistency necessary for the regulation to be effective. The conference aims to promote a constructive dialogue between the various stakeholders in the sector to observe the process of transposition of the regulatory novelties, adopting an overall view that includes both the point of view of the operators in the sector and that of the institutions.

### **Session Chair**

Alessandro Cecchi, Executive Board Utilitalia

### **Program**

Introduction and coordination by the Session Chair  
Alessandro Cecchi, Executive Board Utilitalia

*Governance, management, regulation: overview of the national situation*  
Francesca Mazzarella, Director of Regulatory Affairs Utilitalia

*Assessments on the waste regulation in light of the latest measures*

Bruno Manzi, Utilitalia Environment Coordinator

Ferdinando Di Mezza, Vice President of Assoambiente

Gianfranco Grandaliano, Cisambiente

Francesco Iacotucci, IFEL Foundation consultant for regulation on waste

Vito Belladonna, Technical-Scientific Coordinator for the Integrated Cycle of Urban Waste, ANEA (National Association of Local Government Authorities)

Giulia Battista, Competition Department II, Transport, Energy and Environment Directorate, AGCM

*Round table. The operators' point of view*

Moderator:

Alessandro Cecchi, Executive Board Utilitalia

Speakers:

Walter Giacetti, Managing Director A&T2000

Paolo Carta, Director of Regulatory and Legal Affairs Alia

Francesco Carlini, Regulatory Affairs Manager A2A

Filippo De Simoi, Head of Regulation and Tari System, Hera Group

Conclusions

Lorenzo Bardelli, Director of ARERA (Italian Regulatory Authority for Energy, Networks and Environment)

*Thursday 6*

*November*

10:00 - 17:30

Tiglio Room Hall A6

**Resource Efficiency and  
Circular Economy**

[Click here](#)

Innovative solutions for waste prevention and circular resources management

**Organized by: Comitato Tecnico Scientifico Ecomondo & Società Chimica Italiana –  
Divisione CABC, Associazione Rete italiana LCA – GdL Gestione e trattamento dei rifiuti**

Language:: Italian

[> Go to the conference posters <](#)

Waste prevention practices are at the top of the hierarchy suggested by the European Union, since they are aimed at avoiding a resource consumption and the necessity of treating complex matrices. These practices would proceed together with a management of end of life material resources as circular as possible, through the integration of different options, even led by digitalisation and artificial intelligence solutions. The assessment of environmental impacts must remain at the base of business and policy choices, by means of the selection of suitable sustainability indicators.

This seminar is devoted to the presentation of good practices and case studies of waste prevention, of by-products and discards management, and of the measurement of environmental performances in order to optimise recycling and recovery operations.

### Session Chairs

Fabrizio Passarini, Ecomondo STC and University of Bologna

Lucia Rigamonti, Milan Polytechnic University

Danilo Bonato, Erion Compliance Organization

### Program

9.30 Introduction by the Chairs and brief poster presentation

***Invited lectures***

9.45 *Digitalisation supporting circular economy: Circthread and CE-RISE*

Francesca Fattori, ERION

10.00 *Horizon Project EU "WASTEWISE – Waste Avoidance Strategies for Environmental Sustainability"*

Luca Falasconi, University of Bologna

***Speeches selected from the Call for Papers***

*Topic: Communities*

10.30-10.42 *A European End-of-Waste case-by-case Database: facilitating a level playing field in Europe*

Romano Ruggeri, Jan Teekens - IMPEL

10.42-10.54 *Leveraging machine vision to produce the data for more sustainable cities and a smarter waste collection*

Gwendal Cobert, Solutions Vizionome Inc

10.54-11.06 *CircularPSP: Driving Digital Innovation for Circular Public Procurement and Waste Prevention in Europe*

Georg Vogt<sup>1</sup>, Emanuela Vanacore<sup>2</sup>, Bart Vilier<sup>1</sup> - 1 ICT Green Economy, empirica Communication and Technology Research, Bonn, Germany; 2 Researcher, Sustainability Analytics unit, RISE Research Institutes of Sweden AB, Gothenburg, Sweden

11.06-11.18 *The role of the LCA methodology in regional waste management plans in Italy: updates from the latest plans*

Giuseppe Cecere<sup>1,2</sup>, Tiziana Crovella<sup>1,3</sup>, Chiara Magrini<sup>1,4</sup>, Anna Mazzi<sup>1,5</sup>, Anna Moretto<sup>1,6</sup>, Lucia Rigamonti<sup>1,7</sup>, Andrea Fedele<sup>1,5</sup> - 1GdL Gestione e Trattamento dei Rifiuti dell'Associazione Rete Italiana LCA; 2Ecoinnovazione SRL; 3Università degli studi di Bari Aldo Moro; 4European Commission, Joint Research Centre (JRC), Seville, Spain; 5Università degli studi di Padova; 6Consiglio di bacino Brenta per i rifiuti; 7Politecnico di Milano

11.18-11.30 *Sfide metodologiche per l'integrazione della Social Life Cycle Assessment nel Safe and Sustainable by Design: il caso del progetto europeo ANALYST*

Federica Silveri, Manuela D'Eusano, Luigia Petti - Dipartimento di Economia (DEC), Università "G. d'Annunzio", Pescara

11.30-11.42 *La gestione dei rifiuti speciali in ambito ospedaliero*

Felicia Ilgrande, Vincenza Poliandri, Tiziano Mancini - Intercent-ER Regione Emilia-Romagna

11.42-11.54 *Total Look Total Care: design e governance per il tessile post-consumo*

Elena Pucci, Elisabetta Cianfanelli, Margherita Tufarelli - Università di Firenze

11.54-12.06 *EMAS nel settore delle costruzioni. Buone pratiche e circolarità*

Mara D'Amico, Bertrand Capra, Annamaria Caputo, Barbara D'Alessandro, Renata Pacifico, Valeria Tropea, Silvia Ubaldini - ISPRA Istituto Superiore per la Protezione e la Ricerca Ambientale, Roma

12.06-12.18 *Approcci integrati alla valutazione della sostenibilità e della circolarità nelle filiere agroalimentari*

Luigi Servadei - Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria

12.18-12.30 *Waste reduction and management at Venice Airport*

Giulio Piovanelli, Davide Bassano - SAVE S.P.A.

12.30-12.42 *ReSicle: un modello didattico-sperimentale di economia circolare per il recupero integrato dei materiali da pannelli fotovoltaici esausti*

Federico Capone, Mattia Gallivanone, Angelo Gulotta, Paolo Ielmini, Francesca Realini - I.I.S. "Lorenzo Cobianchi", Verbania

12.42-12.54 *Il recupero del Marine Litter nei porti a km 0: una nuova frontiera dell'economia circolare*

Federico Pellizzari - GREEN EVOLUTION SRL SB, CNR

12.54-13.06 *Butts off the shores: testing the impact of green nudges in reducing cigarette litter at lake Trasimeno*

Luca Mariani (a), Davide Ricci Focaia (a,c), Aron Pazzaglia (d), Paolo Polinori (a), Beatrice Castellani (b d) - (a) Department of Economics, University of Perugia, Italy; (b) Department of Engineering, University of Perugia, Italy; (c) Department of Science, Technology and Society, IUSS – University School for Advanced Studies Pavia, Italy; (d) CIRIAF – Interuniversity Research Center, University of Perugia, Italy

Lunch Break

### Topic: Research

14.00-14.12 *Diagnosi delle risorse nella Fabbrica di San Pietro: valorizzazione delle risorse e prevenzione nella riduzione dei rifiuti*

Tiziana Beltrani<sup>1</sup>, Claudia Brunori<sup>1</sup>, Paolo Roberto Di Palma<sup>1</sup>, Marco La Monica<sup>1</sup>, Michela Langone<sup>2</sup>, Silvio Viglia<sup>2</sup>, Emilia Rio<sup>3</sup>, Serenella Campana<sup>3</sup>, Andrea Proietti<sup>3</sup>, Salvatore Fega<sup>3</sup>, Massimo Centemero<sup>4</sup>, Walter Ganapini<sup>5</sup>, Roberto Morabito<sup>5</sup> - <sup>1</sup> Dipartimento di Sostenibilità dei Sistemi Produttivi e Territoriali (SSPT), ENEA, Centro di Ricerche della Casaccia, Rome, Italia; <sup>2</sup> Dipartimento di Sostenibilità dei Sistemi Produttivi e Territoriali (SSPT), ENEA, Centro di Ricerche di Portici, Italia; <sup>3</sup> Fabbrica di San Pietro, Città del Vaticano; <sup>4</sup> Consorzio Italiano Compostatori; <sup>5</sup> Comitato Tecnico Scientifico "Progetto di Sostenibilità della Fabbrica di San Pietro"

14.12-14.24 *Dati primari di foreground per la valutazione ambientale dei processi di riuso dei rifiuti da costruzione e demolizione: criticità e prospettive emerse dal progetto REWINDS*

Luca Morganti<sup>1</sup>, Filippo Baioli<sup>2</sup>, Simone Bandini<sup>2</sup>, Emanuele Piaia<sup>1</sup>, Theo Zaffagnini<sup>1</sup>, Valentina Frighi<sup>1</sup> - <sup>1</sup> Università degli Studi di Ferrara, Dipartimento di Architettura, <sup>2</sup> Certimac soc.cons. a r.l.

14.24-14.36 *Compositi biobased rinforzati con fibre naturali: trattamenti funzionali e strategie di End-of-life per la transizione ecologica*

Gian Luca Falletti<sup>(1)</sup>, Luciano Macera<sup>(1)</sup>, Lidia Lancellotti<sup>(1)</sup>, Claudio Mingazzini<sup>(2)</sup>, Selene Grilli<sup>(2)</sup>, Giulia De Aloysio<sup>(3)</sup>, Luca Laghi<sup>(3)</sup>, Stefano Bassi<sup>(3)</sup> - <sup>(1)</sup> Nanoprom Chemicals - <sup>(2)</sup> ENEA MCC - <sup>(3)</sup> Certimac

14.36-14.48 *BUDDIE-PACK solutions for sustainable plastic packaging reuse*

Florence Isnard - IPC

14.48-15.00 *BioFibreLoop Project: circular bio-based technical textiles with innovative bio-inspired non-toxic functionalisation*

Carlotta D'Aleo, Ilaria Canesi, Matteo Maccanti, Daniele Spinelli, Thomas Fischer - Carlotta D'Aleo<sup>(1)</sup>, Ilaria Canesi<sup>(1)</sup>, Matteo Maccanti<sup>(1)</sup>, Daniele Spinelli<sup>(1)</sup>, Thomas Fischer<sup>(2)</sup> - <sup>(1)</sup> Next Technology Technotessile, <sup>(2)</sup> DITF Denkendorf, Germany

15.00-15.12 *MICROORC: Orchestrating food system microbiomes to minimize food waste*

Patrizia Circelli, Simona Mincione - PNO Innovation

15.12-15.24 *Applying Social Life Cycle Assessment in Circular Bioeconomy: A VALZEO Case Study on Zeolite from Rice Waste*

Chiara De Santis, SITES Ltd

15.24-15.36 *Valutazione LCA di tecnologie innovative per il trattamento dei fanghi di depurazione: scenari e strategie verso l'economia circolare*

Nardella G. (1), Cerbone A. (2), Di Fabio S. (2), Fantin V. (2), Rinaldi C. (2), Fabbricino M. (1), Petta L. (2) - 1) Università degli Studi di Napoli Federico II – Dipartimento di Ingegneria Civile, Edile e Ambientale; (2) ENEA – Dipartimento Sostenibilità, circolarità e adattamento al cambiamento climatico dei Sistemi Produttivi e Territoriali

15.36-15.48 *Da rifiuto a risorsa: mineralizzazione della CO2 su scarti industriali basici*

Annamaria Catalano, Alessandro Allegri, Giovanni Fragale, Maria Chiara Bignozzi, Stefania Albonetti - Università di Bologna

#### Topic: Companies

15.48-16.00 *Parma Calcio 1913: un modello di gestione circolare e prevenzione dei rifiuti nel mondo sportivo*

Stefano Perrone, Parma Calcio 1913 SRL

16.00-16.12 *Riuso e riciclo rifiuti tessili*

Raffaello De Salvo, CORETEX Cosorzio Riuso e Riciclo Tessile

16.12-16.24 *Valorisation of biochar from sewage sludge pyrolysis*

Elisa Fersini, Bianca Falco, Flavia Di Munno, Francesco Todaro, Michele Notarnicola - Polytechnic University of Bari

16.24-16.36 *Eco Paper Cushioning Bag: Turning Paper and Cardboard Waste into a Circular Protective Packaging Resource*

Anh Ngo, Lara Botta - BOTTA EcoPackaging

16.36-16.48 *Paper & Bioplastics Driving the Future of Recyclable Packaging in Europe: Case studies of Mater-Bi® Advancing Solutions for the PPWR Challenge*

Daniele Turati 1, Federico Faiella 1, Cesare Vannini 2 – 1 Novamont S.p.A., 2 Cooperativa Cartai Modenesi

16.48-17.00 *Bloom Back*

Simona Franchina - Radici Pietro Industries & Brands Spa

17.00-17.12 *Progettare lubrificanti sicuri e sostenibili: l'approccio SiToLub per la prevenzione dei rifiuti e l'allineamento normativo*

Davide Don, Lucia Pisarova, Rafa Garcia-Meseguer, Jonas Hoffmann, Xavier Borrás, Parvin Zare, Ben Fry, Patrick Degen, Jakob Kibala, Eugenia Valsami-Jones, Francesco Pagano - Fraunhofer Italia Research

17.12-17.24 *RE.MU.RES Landfill mining della discarica mediante tecniche muografiche non invasive per il recupero dei materiali*

Antonio Valerio, Fabio Sebastiano - Recupero Etico Sostenibile Spa

17.25-17.45 Discussion and closure by the Chairs

#### **Poster Session**

**WM-P1** – *From waste to resource: polymer recycling - Regenerated post-consumer polypropylene raffia for food-grade applications* / Mancino Noemi - LYONDELLBASELL

**WM-P2** – *TiRiuso: la second hand delle aziende* / Vincenzo Pacinelli - Imago Comunicazione s.r.l.

**WM-P3** – *TapoEKO e la Rivoluzione Sostenibile della Scoria di Acciaio Inox* / Emanuela Gubbiotti - TAPOJARVI ITALIA S.r.l.

- WM-P4** – *Stoviglie e contenitori edibili per la prevenzione dei rifiuti: il modello Bonfitaly srl* Dalla crusca ai supermercati: stoviglie e vaschette edibili per eliminare il monouso convenzionale / Elżbieta Danielska 1, Tomasz Gawrylczyk 2, Paola Di Giambattista 3 - 1 Bonfitaly, 2 Tecnologo alimentare, 3 Esperta di Food & Hospitality sostenibile
- WM-P5** – *Bioneer: scaled-up production of next-generation carbohydrate-derived building blocks to enhance the competitiveness of a sustainable European chemicals industry* / Patrizia Circelli, Simona Mincione - PNO Innovation
- WM-P6** – *Proposta operativa per lo smaltimento in sicurezza dei rottami ferrosi e di altri rifiuti con possibile presenza di amianto* / Sergio Clarelli - Assoamianto
- WM-P7** – *La sostenibilità a lungo termine del calcestruzzo prodotto con scorie di acciaieria: primi risultati del progetto Steelcrete* / Alessandro Abbà, Antonio Conforti 1, Federica Lollini 2, Flora Faleschini, Daniel Trento 3 - 1 Dipartimento di Ingegneria Civile, Architettura, Territorio, Ambiente e di Matematica - Università degli Studi di Brescia, 2 Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta" - Politecnico di Milano, 3 Dipartimento di Ingegneria Civile, Edile e Ambientale - Università degli Studi di Padova
- WM-P8** – *L'evoluzione degli strumenti di comunicazione nei processi di raccolta differenziata: le App* / Mangiagli Sebastiano - Istituto Tecnico Industriale "E. Fermi", Siracusa
- WM-P9** – *Driving Behavioural Change in Waste Management with World-Leading AI: Real-Time Recognition, Smart Guidance, and Gamified Engagement* / David Landsberg - Litter Aware Ltd (peasy.com), UK
- WM-P10** – *Green Mobile Home Experience: Un Nuovo Orizzonte per l'Edilizia Sostenibile* / Specchio Gian Nicola - AR2 Investment Be Change srl
- WM-P11** – *Riuso e riciclo scarti tessili* / Raffaello De Salvo - CORETEX Cosorzio Riuso e Riciclo Tessile
- WM-P12** – *Seedling production in biodegradable root trainers* / Tadeu Alcides Marques - Roque Trevisan College of Technology
- WM-P13** – *Strategie di economia circolare per batterie e veicoli: un'indagine sulle esperienze europee* / Marco La Monica - ENEA, Dipartimento Sostenibilità (SSPT), Divisione Economia Circolare
- WM-P14** – *Microbiota enrichment of compost media to enhance bioplastics biodegradation in industrial composting: a panel of biotechnological methodologies* / Gadaleta, G.a; Roca- Pérez, L.b; Alejos-Campo, A.b; Andrade-Chapal, J.C. a; López-Ibañez, Sa, Mozo-Toledo, M.a - a Biodegradability & Compostability Laboratory, AIMPLAS - Plastics Technology Centre, Paterna (Valencia), Spain; b Department of Vegetal Biology (Pharmacy Faculty), Universitat de València, Burjassot (Valencia), Spain
- WM-P15** – *Analisi dell'impatto socio-ambientale dei cantieri no-dig e open-cut in contesto urbano: modello di calcolo dei costi indiretti e quattro casi studio* / Stefano Roberto Carnevali - Rotech Srl
- WM-P16** – *Approccio circolare e partecipato per il risanamento delle contaminazione da organoclorurati nelle acque sotterranee dell'Umbria* / Alfonso Morelli 1, Thomas De Luca 2 – 1 ARPA Umbria; 2 Regione Umbria
- WM-P17** – *Impatto del diserbo sulla gestione dell'igiene urbana nei Comuni* / Matteo Lombardi - Ellequadro Ingegneria
- WM-P18** – *Zannini S.p.A.: il truciolo di ottone diventa risorsa circolare* / Laura Zannini – Zannini s.p.a.
- WM-P19** – *Driving waste prevention and circular economy through sustainability maturity* / Giacomo Parolin 1,2, Tim McAloone 2, Daniela Pigosso 2 – 1 essensus ApS; 2 DTU

- WM-P20** – *RES – TEXTILE: dal rifiuto in plastica alla risorsa nel settore tessile/* Antonio Valerio, Fabio Sebastiano, Laura Mastronardi, Valerio Maialetti - Recupero Etico Sostenibile spa
- WM-P21** – *RES – UP CYCLING /* Antonio Valerio, Fabio Sebastiano, Andrea Rateni - Recupero Etico Sostenibile spa
- WM-P22** – *PTC plastic to chemicals: economia circolare e obiettivo rifiuti zero utilizzando il riciclo chimico /* Antonio Valerio, Fabio Sebastiano, Giuseppe Pucci, Lorenzo Carnino - Recupero Etico Sostenibile spa
- WM-P23** – *Compounding B2B™: il modello MyReplast Industries tra innovazione e sostenibilità/* Marco Rizzo – MyReplast Industries srl
- WM-P24** – *Applicazione del Metodo WASM per la riduzione dei volumi di emulsioni oleose esauste nell'industria metalmeccanica e metallurgica: miglioramento del water footprint, dell'impatto ambientale e del rating ESG /* Angelo Ferranti, Simone Nortilli - Contec Industry
- WM-P25** – *GREEN4SLUDGE: Innovazione sostenibile nella gestione dei fanghi conciarati attraverso la carbonizzazione idrotermale /* Daniele Pirini 1, Simone Gilioli 2 - 1 B-Plas Sbrl; 2 Deltacque Srl
- WM-P26** – *Analisi LCA della rigenerazione di imballaggi industriali/* Elisa Amodeo\*, Francesca Manfredini\*, Dream Cazzaniga\*, Guido Scaccabarozzi\*, Giulia Detomati\*, Federico Corsinotti\*\*, Massimiliano Putzolu\*\* - \*InVento Innovation Lab, \*\*Maider NCG
- WM-P27** – *Autoapezzi.it - Il portale nazionale per la demolizione dei veicoli a fine vita, Ecoeuro SRL /* Ferruccio Miotto - Codebeex SRL, Ecoeuro SRL
- WM-P28** – *ELV Manager - Gestione integrata, totale e innovativa per il settore End-Of-Life Vehicles/* Ferruccio Miotto - Codebeex SRL, Ecoeuro SRL
- WM-P29** – *Applicativo fanghi di Arpa Lombardia: la digitalizzazione delle procedure funzionale alla gestione circolare di scarti inevitabili /* Elisabetta Scotto Di Marco - ARPA Lombardia, Direzione Tecnica Controlli e Prevenzione Rischio Antropico - Unità Osservatorio Rifiuti ed End Of Waste
- WM-P30** – *Relining di condotte contenenti amianto in matrice compatta/* Mattia Iannone - Rotech srl
- WM-P31** – *CHORIZO: changing practices and habits through open, responsible, and social innovation towards zero food waste /* Concha Ávila, Gabriela Alcat - FIAB, RDI department, Madrid, Spain
- WM-P32** – *Neutalia: un modello di innovazione industriale per la transizione ecologica e l'economia circolare /* Maria Ventura - Neutalia
- WM-P33** – *Circular Economy Project: Recovery and Valorization of Used Cigarette Filters/* Gaia Liberatori, Gianluca Manzoni - GM Ambiente & Energia
- WM-P34** – *Microbial detection in industrial processes /* Irina Raykhel, Antonina Shvetsova, Tiina Tolonen, Jarmo Hietanen - University of Oulu, Measurement Technology Unit
- WM-P35** – *The challenges of transferring the ISO 5351 laboratory method to factory floor/* Jarmo Hietanen, Harri Huttunen - University of Oulu, Measurement Technology Unit
- WM-P36** – *Towards microplastic-free recycled wood fibre/* Jarmo Hietanen, Harri Huttunen - University of Oulu, Measurement Technology Unit
- WM-P37** – *Valorizzazione dei residui colturali in frutteto: le opportunità di economia circolare offerte dal Biochar /* Cavazza Francesco 1, Solimando Domenico, Ferrarini Valeria, Lavrnić Stevo, Toscano Attilio, Zucaro Raffaella - 1 Consorzio di secondo grado per il Canale Emiliano Romagnolo

**WM-P38** – *Al per l'efficientamento dell'operatività in impianti di raccolta e trattamento rifiuti per percolato e biogas* / Daniele Mazzei - Zerynth

**WM-P39** – *Riciclare il vetro del parabrezza dà sempre buoni frutti: il vasetto che unisce sostenibilità, inclusione e circolarità* / Federica De Luigi, Nadia Leali - Carglass Italia

**WM-P40** – *Guidare le politiche locali e gli investimenti: un sistema di scoring multi-criterio per ottimizzare la gestione circolare e valorizzazione dei rifiuti organici in ammendanti per il suolo* / Sara Daniotti 1, Giulia Cividini 1, Mikolaj Owsianiak 2, Patricia Gilarte Padilla 2, Amila Abeynayaka 2, Bernardo Maestrini 3, Liesbeth de Shutter 4, Daniel Pleissner 5, Juliette Soudon 6, Giulio Poggiaroni 7, Edoardo Nencetti 7 - 1 Consorzio Italbiotec (Italy), 2 Technical University of Denmark (Denmark), 3 Wageningen Plant Research (Netherlands), 4 Wageningen University (Netherlands), 5 Nachhaltigkeitsberatung Dr.Friege & Partner (Germany), 6 Euroquality, 7 ETA-Florence Renewable Energies (Italy)

**WM-P41** – *Dallo scarto alla risorsa: Uno studio sperimentale sull'utilizzo degli scarti ittici in digestione anaerobica* / Chiara Noto, Giulio Parolari, Stefano Trotta, Mariangela Soldano - Centro Ricerche Produzioni Animali CRPA Soc. cons. p. A. Reggio Emilia, Italy, Università degli Studi di Parma

**WM-P42** – *Analisi del ciclo di vita (LCA) di un copriabito circolare per l'alta moda* / Roberto Rocca\*, Elisa Amodeo\*, Alessia Boscarato\*, Mahmoud Samy Rezk Elashry\*, Sergio Terzi\*-  
\*Politecnico di Milano

**WM-P43** – *L'importanza dei controlli sulle discariche in fase costruttiva e di chiusura* / Stefania Ughini, Chiara Marchisio, Valeria Randazzo, Francesca Zanini - ARPA Lombardia Direzione tecnica controlli e prevenzione del rischio antropico

**WM-P44** – *Production and use of bio-flocculants from microalgae cultivated in wastewater* / Sara Stentella<sup>1</sup>, Giulia Sagnotti<sup>2</sup>, Simone Leoni<sup>2</sup>, Massimo Spizzirri<sup>2</sup>, Amina Antonacci<sup>1</sup> - 1 Institute of Crystallography, National Research Council of Italy, Department of Chemical Sciences and Materials Technologies, Rome, Italy; 2 ACEA INFRASTRUCTURE S.p.A. Rome, Italy

**WM-P45** – *Exploring valorisation alternatives of screenings in Urban Wastewater Treatment Plants: Environmental and Economic Evaluation* / Alessandro Frugis<sup>(1)</sup>, Massimo Spizzirri<sup>(3)</sup>, Giancarlo Cecchini<sup>(1)</sup>, Giulia Sagnotti<sup>(1)</sup>, Marianna Villano<sup>(2)</sup>, Gaia Salvatori<sup>(2)</sup> - (1) Acea Infrastructure S.p.A. Roma; (2) Dipartimento di chimica Università la Sapienza, Roma; (3) Acea Ato 2 S.p.A. Roma

**WM-P46** – *Ctrl Waste: A Scalable Digital Tool for Real Time Waste Monitoring and Data-Driven Sustainability in the Hospitality Sector* / Pedro Arthur Campos<sup>1,2</sup>, Gustavo Ferracioli<sup>1</sup>, Julia Pfeiffer<sup>1,2</sup> - 1 Ctrl Waste, 2 HUBIS - Hub for Sustainability Innovation, Brazil

**WM-P47** – *Implementazione di un impianto mobile per il recupero circolare delle membrane bituminose derivanti da demolizione* / Giacomo Ticchi - Eco Demolizioni Soc. Benefit

**WM-P48** – *Mears CCC - Strategie circolari e bio-based per la produzione di elementi d'arredo mediante molding da scarti lignocellulosici locali* / Gennaro Durante, Antonella Uricchio, Anna Paola Piacente - Forethinking Srl SB

**WM-P49** – *NUTRI.M.E.N.T.I. - A Multidisciplinary Approach to Reducing Food Waste in School Canteens* / Chiara Zalambani<sup>1</sup>, Francesco Arfelli<sup>2</sup>, Nicola Rizzardi<sup>1</sup>, Muhammad Waqar<sup>1</sup>, Daniela Pacifico<sup>3</sup>, Daniele Cespi<sup>2</sup>, Roberto Gotti<sup>1</sup>, Marco Malaguti<sup>4</sup>, Carola Parolin<sup>1</sup>, Matteo Vignoli<sup>5</sup>, Cecilia Prata<sup>1</sup> - 1 Department of Pharmacy and Biotechnology (FaBiT) Alma Mater Studiorum University of Bologna, Italy; 2 Department of Industrial Chemistry "Toso Montanari" (CHIMIND), Alma Mater Studiorum University of Bologna, Italy; 3 Research Centre for Cereal and Industrial Crops (CREA-CI), Council for Agricultural Research and Economics, Bologna, Italy; 4 Department for Life Quality Studies (QuVi), Alma Mater Studiorum University of Bologna, Italy; 5 Department of Management (DiSA), Alma Mater Studiorum University of Bologna, Italy

- WM-P50** – *Feedback on the participation of ivoirian companies at Ecomondo/* Goulia Vlangny Jean-Baptiste - Universite Peleforo gon Coulibaly (Korhogo)
- WM-P51** – *Upcycling of glass bottles into hydrocyclone separators: An empirical performance evaluation /* Thomas Senfter, Christian Bachmann, Thomas Neuner, Manuel Berger, Christian Mayerl, Tobias Kofler, Martin Pillei - MCI, Innsbruck, Austria
- WM-P52** – *Misurare tutte le frazioni di rifiuti per una innovativa tariffa puntuale di bacino: il caso di Coinger srl /* Giorgio Ghiringhelli 1, Michele Giavini 1, Giorgio Ginelli 2, Paride Magnoni 2 - 1 ARS ambiente Srl; 2 COINGER Srl
- WM-P53** – *Spent Coffee Grounds in Eco-Friendly Gypsum Panels: Hygrothermal Behavior and Circular Innovation /* Luigi Madeo 1, Anastasia Macario 1, Pierantonio De Luca - Dip. Ingegneria dell'Ambiente, Università della Calabria, Arcavacata di Rende (CS), Italy
- WM-P54** – *Circular Re-Thinking School e il Progetto RIPLAS: formare professionisti e attivare la transizione circolare nei territori /* Francesca Ierace (a), Laura Pasquardini (b), Andrea Dorigato (c), Marco Saletti (d) - (a) Terra-Institute, Bressanone BZ; (b) Indivenire srl, Trento; (c) Dipartimento di Ingegneria Industriale, Università di Trento, Trento; (d) Nuova Saimpa, Cimego TN
- WM-P55** – *Soluzioni innovative per la prevenzione dei rifiuti e la gestione circolare delle risorse: il contributo di Firefly nella protezione antincendio per l'industria del riciclo /* Alberto Ferrari - Firefly Italy srl
- WM-P56** – *Digital Product Passport (DPP) for mattresses: Status quo, challenges and potential/* Birgit Christandl 1, Martin Pillei 1, Thomas Senfter 1, Michael Bednarek 2, Helena Pattermann 3, Roman Eberharter 4, Verena Judmayr 5 - 1 MCI, Innsbruck, Austria; 2 NEVEON Holding GmbH, Vienna, Austria, 3 Impact Hub/ Climate Lab, Vienna, Austria, 4 Betten Eberharter GmbH, Ramsau Zillertal, Austria, 5 Circularful GmbH, Vienna, Austria
- WM-P57** – *ISAT (Integrated Sustainability Assessment Tool)/* Pablo Martinez 1, Rocco Lagioia 2 - 1 ISAT, 2 TheGreenTech
- WM-P58** – *L'efficienza del decanter centrifugo nel trattamento dei fanghi di dragaggio e conseguente riduzione dell'impatto ambientale mediante il recupero dell'acqua /* Michele Russo - Getech Srl
- WM-P59** – *EMAS nel settore della carta/* Houda Mezrane, Andrea Gagna, Renata Pacifico, Valeria Tropea - ISPRA
- WM-P60** – *Sviluppo di cementi sostenibili con l'impiego di calce esausta mineralizzata/* Riccardo Pascolo, Valentina Scognamiglio, Elisa Franzoni, Maria Chiara Bignozzi - Centro Ceramico Consorzio Universitario
- WM-P61** – *Reducing Consumer Food Waste in Cities: The PERFETTO Approach Combining AI and Behavioural Interventions /* Camilla Comis 1, Ludovica Principato 2, Tiziana Laureti 3, Clara Cicatiello 1, Mengting Yu 3, Luca Secondi 3 - 1 Department for Innovation in Biological, Agro-Food and Forest Systems (DIBAF), University of Tuscia, Viterbo (Italy); 2 Department of Business Studies, University of Roma Tre, Rome (Italy); 3 Department for Economics, Engineering, Society and Business Organization (DEIM), University of Tuscia, Viterbo (Italy)
- WM-P62** – *Reduced-Energy Processing of PLA/Talc Biocomposites: Comparing In-Mold Crystallization and IR Annealing /* Hadi Saniei 1, Alberto Marcolongo 2,, Giovanni Lucchetta 1 - 1 Department of Industrial Engineering, University of Padova; 2 Sirmax SpA Mellaredo di Pianiga (VE), Italy
- WM-P63** – *ISO 20121: Nuove prospettive per l'organizzazione di eventi sostenibili/* Milan Michele, Beatrice Bortoli - EcamRicert srl

- WM-P64** – *Metal Recovery from Next-Generation Photovoltaics: Toward Scalable and Circular End-of-Life Solutions* / Becci Alessandro, Amato Alessia, Merli Giulia, Beolchini Francesca - Università Politecnica delle Marche
- WM-P65** – *Non-Critical Raw Materials in WEEE: role and circular opportunities of plastics* / Pierfilippo Sessa, Lolita Liberatore - Department of Economic Studies, University G. d'Annunzio of Chieti-Pescara, Italy
- WM-P66** – *Gestione ottimale del grigliato come strumento per la riduzione dei costi di smaltimento e per la decarbonizzazione* / Elisabetta Sardi 1,2, Lara Barbesino 2 - 1 WIBU Italia; 2 Sulzer Italy srl
- WM-P67** – *Utilizzo di trituratori per la gestione del grigliato nelle vasche volano* / Elisabetta Sardi - WIBU Italia; Sulzer Italy srl
- WM-P68** – *Valutazione integrata di un nuovo modello molitorio rigenerativo: l'esempio di Altograno e Germolio* / Simone Pallara, Giovanni Lagioia, Massimiliano Oggiano, Teodoro Gallucci, Annarita Paiano - Università degli Studi di Bari - Dipartimento Economia, Management e Diritto dell'Impresa, Bari
- WM-P69** – *Una valutazione comparativa del ciclo di vita di due diversi sistemi di coltivazione della mela in aree montane del Nord Italia* / Moe Thae Oo, Luca Tomasi - Fondazione Edmund Mach
- WM-P70** – *Integrating Cigarette Butt Waste into Gypsum Panels: A Life Cycle Approach to Sustainable Construction Materials* / Aron Pazzaglia<sup>1</sup>, Silvia Cavagnoli<sup>1</sup>, Claudia Fabiani<sup>1,2</sup>, Anna Laura Pisello<sup>1,2</sup>, Beatrice Castellani<sup>1,2</sup> - 1CIRIAF – Interuniversity Research Center, University of Perugia, Italy; 2Department of Engineering, University of Perugia, Italy
- WM-P71** – *Città di Torino, opportunità circolari dal vestiario dismesso della Polizia Locale* / Chiara Foglietta - Città di Torino
- WM-P72** – *Pprae: digitalizzazione per strategie integrate di raccolta, riparabilità e valorizzazione dell'e-waste* / Alessio Fabrizi, Luca Pomili - Pomili Demolizioni Speciali Srl, Monterotondo (Roma)
- WM-P73** – *Abbattimento dei solfuri nei reflui conciarci mediante prodotti di recupero* / Maurizio Galasso, Lorenzo Cantini - Consorzio Aquarno SpA
- WM-P74** – *Valorization of Agro-Industrial waste in biodegradable polymer composites for circular economy and sustainable agriculture* / Elia Pagliarini<sup>1</sup>, Carmen Minichiello<sup>2</sup>, Loredana Baffoni<sup>1</sup>, Diana Di Gioia<sup>1</sup>, Micaela Vannini<sup>2</sup>, Annamaria Celli<sup>2</sup>, Andrea Saccani<sup>2</sup>, Laura Sisti<sup>2</sup> - 1Department of Agricultural and Food Sciences, University of Bologna, Italy; 2Department of Civil, Chemical, Environmental and Materials Engineering, University of Bologna
- WM-P75** – *Alternative scenarios in microalgae production plant using wastewater and photovoltaic energy: a Life cycle Assessment* / Luigi Gurreri<sup>1</sup>, Antonella Luciano<sup>2</sup>, Mirko Calanni Rindina<sup>1</sup>, Debora Fino<sup>3</sup>, Giuseppe Mancini<sup>1</sup> - 1 University of Catania; 2 ENEA; 3 Politecnico of Turin
- WM-P76** – *Il ruolo dei rifiuti nella produzione calcestruzzo. Stato dell'arte e prospettive di sostenibilità* / Giuseppe Alberto Tunzi, Annarita Paiano, Carlo Ingrao, Giovanni Lagioia - Università di Bari - Dipartimento Economia Management e Diritto dell'Impresa
- WM-P78** – *I rifiuti del turismo: gestione stagionale e circolare nei territori con più elevata affluenza* / Vittorio Spinuso, Francesco Grassi, Dario Immordino, Roberta Falconieri - Business Integration Partner Spa
- WM-P79** – *Progetto Eco2Air: creare delle foreste tecnologiche nelle nostre città* / Daniele Agosto - Fervo Group srl

- WM-P80** – *Two-Step Bio-hydrogen Production from Second Cheese Whey Using Purple Non-Sulfur Bacteria and Selected LED Lights in a 5-L Bioreactor* / Luca Bernabò, Giulia Daly, Viola Galli, Alessandra Adessi, Lisa Granchi - Università degli Studi di Firenze
- WM-P81** – *Valorisation of biochar from sewage sludge pyrolysis* / Elisa Fersini, Bianca Falco, Flavia Di Munno, Francesco Todaro, Michele Notarnicola - Polytechnic University of Bari, Bari, Italy
- WM-P82** – *Enhancing the Riverine Plastic Capturing Business Model: Cost-Benefit Analysis of River Barrier Projects* / Dalmonte Fabio 1, Giorgio Puzzarini 2 - 1 SEADS-Sea Defence Solutions; 2. Università Statale Milano
- WM-P83** – *Integrated Circular Strategies for Grease Waste Management in Urban HORECA: A Synergistic Engineering and Education Approach* / Carolina Herrera Solera - Universidad del Sinú - Cartagena
- WM-P84** – *Innovative strategies for recyclable cross-linked polyolefins* / Alexandra Zamboulis, Christina Samiotaki, Evangelia Tarani, Konstantinos Chrissafis, Dimitrios Bikiaris - Aristotle University of Thessaloniki
- WM-P85** – *Possibili integrazioni tra il Regolamento REACH e la metodologia dell'Analisi del Ciclo di Vita (LCA)* / Simone Marzeddu, Giuseppe Granato, Dania Esposito - Sezione Sostanze pericolose, Servizio per l'educazione e formazione ambientale e per il coordinamento tecnico delle attività di Direzione (DG-TEC), Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA)
- WM-P86** – *From Extraction to Circularity: Digital Transformation of Mining through the 9R Framework* / Nela Vujovic 1, Aleksandra Vucinic 2, Vesna Alivojvodic 3 - 1 Institute for Technology of Nuclear and Other Mineral Raw Materials, Belgrade, Serbia; 2 Ministry of Environmental Protection of the Republic of Serbia; 3 The Academy of Applied Studies Polytechnic, Belgrade, Serbia
- WM-P87** – *Valorization of shredded cigarette butts in composite materials for sustainable reuse in construction* / Elisa Moretti 1, Maria Giulia Proietti 1, Ali Benkohail 2, Marco Boccia 2, Mario Villano 2 - 1 Engineering Department, University of Perugia, Perugia, Italy; 2 Human Maple s.r.l., Modena, Italy
- WM-P88** – *Analisi del contesto attuale della gestione rifiuti in Italia* / Samuele Scotti<sup>1</sup>, Donato Lucadamo<sup>1</sup>, Alessandra Russo<sup>1</sup>, Lucia Mastacchini<sup>1</sup>, Federico Villani<sup>2</sup>, Silvia Frisario<sup>2</sup>, Chiara Michelotti<sup>2</sup>, Carla Gambino<sup>2</sup>, Rosario Pappa<sup>2</sup> - 1 Stantec S.p.A., Centro Direzionale, Milano 2; 2 Eni Rewind S.p.A., San Donato M.se (MI)
- WM-P89** – *Circular Economy Metrics for Food Waste Reduction* / Vesna Alivojvodic 1, Nela Vujovic 2, Aleksandra Vucinic 3, - 1 The Academy of Applied Studies Polytechnic, Belgrade, Serbia; 2 Institute for Technology of Nuclear and Other Mineral Raw Materials, Belgrade, Serbia; 3 Ministry of Environmental Protection of the Republic of Serbia
- WM-P90** – *Pioneering enterprise in the field of high-tech recycling in Vietnam* / Le Anh - Duytan Recycling, Vietnam
- WM-P91** – *Riciclo dei fondi di caffè esausti nell'economia circolare: uno studio di caso sull'implementazione pratica e l'innovazione dei materiali* / Laura Gallo 1, Sabina Bellione 1, Carlo Punta 2, Laura Riva 2, Zaira Luisi 3, Marta Schiraldi 3 - 1 Coffeefrom; 2 Politecnico di Milano; 3 Nestlé
- WM-P92** – *Circular Bioeconomy, Biomaterials, and Blue Growth* / T. W. Esan - Tees Industry Limited, Nigeria
- WM-P93** – *Lo spreco alimentare - impatto e importanza della sua riduzione* / Simona Gullace - RINA Services SPA

**WM-P94** – *BioSupPack: Advancing Sustainable Packaging through Biotechnology and Digital Innovation* / Antonietta Pizza - Enco s.r.l.

**WM-P95** – *Criteri Ambientali Minimi: una forma di prevenzione per incentivare le imprese* / Adriano Pistilli – Lib. Prof.

**WM-P96** – *Waste Prevention Program Modelling for Egypt* / Dalia Essmat - Ibtikar for Energy Solutions, Egypt

Thursday 6  
November

10:00 - 13:00

Agorà Fellini - Sites & Soil  
Restoration Area Hall C1

**Resource Efficiency and  
Circular Economy**

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Towards a European end-of-waste regulation for the mineral fraction of construction and demolition waste

**Organized by: Comitato Tecnico Scientifico Ecomondo & ANPAR, AssoAmbiente, ECDB-EuRIC**

Language:: English  
Instant translations:: Italian

Co-organized by the Italian National Association of Recycled Aggregates Producers (ANPAR) and the Recycling Europe Construction & Demolition Branch, the conference aims to foster the exchange of views on the ongoing development of EU end-of-waste criteria for mineral fraction of construction and demolition waste.

The European Commission (DG ENV) and the Joint Research Centre (JRC) will both deliver a presentation on the development of a European End-of-Waste Regulation for C&D waste, particularly regarding the articulation with the forthcoming Circular Economy Act, the development of Green Public Procurement criteria, the REACH regulation and sectoral legislation through the Construction Products Regulation.

The presentations will be followed by a roundtable bringing together stakeholders from across the recycling construction materials value chain. The discussion will build on the institutional perspectives presented by JRC and DG ENV and address key issues related to the development of end-of-waste criteria to support circularity in the European construction sector.

### Session Chair

Giorgio Bressi, Vice President Recycling Europe Construction & Demolition Branch, Technical Director, ANPAR

### Program

10.00 Introduction

Giorgio Bressi, Vice President Recycling Europe Construction & Demolition Branch, Technical Director, ANPAR

10.10-11.10 **Presentations**

10.10 *Development of European End-of-Waste Criteria for the Mineral Fraction of CDW: Technical and Environmental Perspectives*

Lukas Egle, Project officer, Fair and Sustainable Economy, Joint Research Centre

10.40 *The Circular Economy Act: Supporting Circular Construction through End-of-Waste Criteria for CDW*

Florian Flachenecher, Circular Economy Act Taskforce Leader, ENV.B3 From Waste to Resources, European Commission (DG ENV.B.3)

## 11.10-12.30 **Roundtable**

Moderator:

Loïc Brocard, Policy Advisor, Recycling Europe Construction & Demolition Branch

Speakers:

Pär Larshans, President, Recycling Europe Construction & Demolition Branch, Chief Sustainability Officer Ragn Sells

Paolo Campanella, Secretary General, FEAD

Carol Barcella, European Demolishers Association

Christopher Kuhlmann, Fédération Internationale du Recyclage

Dirk Fincke, Aggregates Europe Secretary General

12.30-13.00 Discussion and conclusions

Giorgio Bressi, Vice President of Ragn Sells, Technical Director, ANPAR

*Thursday 6*

*November*

10:00 - 13:00

Agorà Flaminia - Sites &  
Soil Restoration Area Hall  
C1

**Sites and Soil  
Maintenance and  
Restoration**

[Click here](#)

Sustainable remediation of contaminated sites: regulatory framework, innovation and applications

**Organized by: Comitato Tecnico Scientifico Ecomondo & Sapienza Università di Roma, UNEM, Legambiente**

Language:: Italian

Some introductory presentations will be given by invitation from the Administration or Public Institutions, taking into account the EU guidelines for the transition towards the circular economy. A round table will follow with the possibility of interaction with the audience.

### **Session Chairs**

Marco Petrangeli Papini, Sapienza University of Rome

Donatella Giacometti, UNEM

Giorgio Zampetti, Legambiente

### **Program**

10.00-10.15 Greetings and introduction by the Session Chairs

10.15-10.30 *Public participation in remediation procedures: a concrete case*

Nazzareno Santilli, Italian Ministry of Environment and Energy Security

10.30-10.45 *ISPRA's commitment in remediation procedures to support administrations, businesses and citizens*

Maria Siclari, General Director ISPRA

10.45-11.00 *Progress status of the Permanent Safety Measures for the Malagrotta landfill (Rome)*

Aldo Papotto, Structure of the Single Commissioner for the implementation of necessary interventions to adapt illegal landfills present on the national territory to current regulations

11.00-11.15 *Health aspects related to site contamination in light of technical and regulatory developments*

Federica Scaini, Italian National Institute of Health

11.15-11.30 *From containment systems to active source remediation: the egg of Columbus for site remediation*

Marco Petrangeli Papini, Sapienza University of Rome

11.30-11.45 *Simplifications in the reconversion of anthropized areas*  
Donatella Giacometti, UNEM

11.45-12.00 *Innovation in tools for contaminant monitoring and risk assessment*  
Renato Baciocchi, University of Rome Tor Vergata

12.00-13.00 Round Table

Moderators:

Marco Petrangeli Papini, Sapienza University of Rome  
Donatella Giacometti, Unem

Intervengono:

Patrizia Vianello, AIS  
Elena Trapè, Confindustria  
Andrea Del Frate, Edison Regea  
Fabio Michele Troni, EniRewind  
Federico Araneo, Ispra  
Giorgio Zampetti, Legambiente  
Giuseppe Alfano, Sogesid

13.00 Conclusioni

*Thursday 6  
November*

10:00 - 13:00

Ravezzi 2 South Hall

**Sites and Soil  
Maintenance and  
Restoration**  
[Click here](#)

States General of the for soil health - 4th edition - Circular bioeconomy and opportunities for soil regeneration

**Organized by: Comitato Tecnico Scientifico Ecomondo & Re Soil Foundation, National Bioeconomy Coordination Board (NBCB)**

Language:: English

The circular bioeconomy, which arises from the ground and returns to the ground, can play a key role to improve soil health and functions, not only thanks to its low-environmental-impact bioproducts, but also through the enhancement of organic matter and the closure of the carbon cycle. In this context, sustainable management of soils, protection of biodiversity and ecosystems, can contribute to foster resilience and adaptation to climate changes.

Building upon the successful experience of last three years, the fourth edition of the “States General for Soil Health – Circular bioeconomy and opportunities for soil regeneration” will provide the latest European policy updates, including the recently launched “Soil Monitoring Law” and the “Vision for Agriculture and Food”, the positive impacts that the EU Mission “A Soil Deal for Europe” is generating at the European and Italian level, and an overview of projects that connect soil health, agriculture and innovation in Europe and Africa.

### Session Chairs

Luca Montanarella, INSII and Re Soil Foundation TSC  
Margherita Caggiano, Re Soil Foundation

### Program

10.00 *Welcome*

Catia Bastioli, CEO, Novamont

10.30 *Keynote*

Stefano Masini, Coordinator Environment and Territory Area, Coldiretti

10.45 *Speech by Marta Gomez San Juan, FAO*

## European Policy updates

11.00 *Soil Monitoring Law*

Annalisa Corrado, Shadow rapporteur

11.10 *Vision for agriculture and food*

Pasquale Di Rubbo, Deputy HoU, DG AGRI (online)

11.20 *Impact of the EU policy framework on farmers*

Arianna Giuliadori, Coldiretti Bruxelles

11.30 *The EU Mission "A Soil deal for Europe"*

Henri Delenghe, HoU Research and Innovation

## 11.45 Impacts of the EU Mission "A Soil Deal for Europe" on Italian soils

Fabio Fava, Coordinator of National Bioeconomy Coordination Board (NBCB)

Mario Gualdi, Isinnova, Mission Soil Living Lab - the iCOSHELLS project

Susy Longoni, Mission Soil Urban Living Lab - the URSOILL project

Matteo Mazzola, Mission Soil Ambassador

## 12.30 Funded projects on soil regeneration

12.30 *Bio-based in Soil applications with Optimal biodegradation in their Ultimate Life - The SOUL project*

Sara Guerrini, Novamont

12.40 *African Union Soil Observatory - AUSO project*

Claudio Zucca, UniSS

12.50 *EU Horizon Projects Leading Soil Health Innovation*

Humberto Castillo-González, Université Marie et Louis Pasteur

Discussion and closure by the Chairs

Thursday 6

November

10:00 - 11:00

Tulipano Room Hall B6

Research and  
Innovative Start Up

[Click here](#)

Pitch session with innovative EU funded SMEs & Start-Ups

**Organized by: European Innovation Council, SMEs Executive Agency, Commissione Europea**

Language:: English

The pitch session builds up on a representative selection of the portfolio of green and circular innovations funded under the European Innovation Council (EIC). The EIC supports disruptive and market-creating deep tech innovations in Europe, that combine entrepreneurship with Sustainable Development. The pitch session model echoes this strategic approach and gives the selected beneficiaries the opportunity to present their research and business ideas in front of an expert jury, relevant venture capitalists and interested audience, coming from the private sector. Following the value chain, the presented projects include new impulses from upstream materials, tools, analysis methods to downstream applications and recycling.

## Program

10.00-10.05 Welcoming words by the EIC

10.05-10.20 *Pitch Session - Part I*

Pitches by:  
Releaf Paper  
CO2BioClean  
IOS, d.o.o.  
Thermophoton

10.20-10.25 Break

10.25-10.40 *Pitch Session - Part II*

Pitches by:  
VCG.AI GmbH  
IRIDSENSE  
Circular Materials  
NDG GROUP  
Gruppo Gatti

10.40-11.00 Evaluation by the Jury

*Thursday 6*

*November*

10:00 - 11:00

Ocean Arena Hall B8

**Water Cycle and Blue  
Economy**

[Click here](#)

## Opening Ceremony: Hackathon Competition "BluesLinks" Project

**Organized by: Comitato Tecnico Scientifico Ecomondo & Delta 2000 GALPA Costa dell'Emilia-Romagna, Legacoop Agroalimentare Nord Italia**

Language:: Italian

DELTA 2000, lead partner of the Blueslinks territorial cooperation project, is responsible for organizing a Hackathons Competition dedicated to aquaculture and sustainable fishing; a challenge in which, for 24 hours, multidisciplinary teams will meet and compete on real proposals aboard the Bella Rimini motor vessel in the Port Canal, developing ideas and scenarios with future visions capable of finding innovative solutions to the problems and needs of the fishing and aquaculture sectors. The hackathon will take place in conjunction with Ecomondo, with live coverage on social networks and video testimonials that will be broadcast at the project stand (Hall B6).

The results will be presented in the afternoon session of the conference "Blue Skills & Jobs: steering strategies towards change by navigating a sea of opportunities for sustainable blue growth," to be held on Friday, November 7, at the Agorà Blue Economy.

### **Program**

10.00 Anna Montini, Councilor for the Blue Economy of the Municipality of Rimini

10.10 Giulia Carboni, Programme Coordination Manager for Sustainable Blue Economy at European Climate, Infrastructure and Environment Executive Agency, European Commission

10.20 Alessandro Pititto, Direttore e Responsabile Area Internazionale. COGEA, bip Group.

10.30 Elena Gaudio, Ministry of Education and Merit

10.40 Ottavio Cilio, Frigate Captain (CP), Commander of the Port Authority of Rimini

10.50 Cristian Maretti, President Legacoop Agroalimentare

*Presentation of the Evaluation Committee members and COUNTDOWN Hackathon Blueslinks*

Thursday 6  
November

10:15 - 13:00

Agorà Tiberio - Water  
Cycle Area Hall D8

Water Cycle and Blue  
Economy  
[Click here](#)

## Building and optimizing water infrastructure in Italy: from Next Generation EU to the strategy for water resilience

**Organized by: Comitato Tecnico Scientifico Ecomondo & Università Politecnica di Marche, Utilitalia, Consiglio Nazionale degli Ingegneri**

Language:: Italian

The Next Generation EU is having a significant impact on the water infrastructure and the European and Italian industry, particularly to increase efficiency, digitalization and resilience. Although these projects have addressed very relevant cases, the EU is still facing structural mismanagement and widespread degradation of water resources and ecosystems that are damaging the EU's environment, economy and people. To restore the compromised water cycle by addressing three specific objectives:

- (1) restore and protect the water cycle;
- (2) ensure clean water and accessible sanitation for all;
- (3) promote a competitive European water industry as part of a clean and water-conscious circular economy, the Water Resilience strategy is a priority of the European Commissioner.

In the first session, this workshop will present an assessment of the main results of projects and infrastructures funded by Next Generation EU, while the second session will introduce the main points of the EU water resilience strategy focusing on infrastructures, finance and investments.

### Session Chairs

Attilio Toscano, Scientific Technical Committee of Ecomondo  
Francesco Fatone, Scientific Technical Committee of Ecomondo  
Mario Rosario Mazzola, Utilitalia  
Massimiliano Panero, Vice President Sogesid  
Veronica Manfredi, European Commission, DG Environment

### Program

10.15 Introduction by Session Chairs

10.20 *Water after Next Generation EU? Actions of the European water resilience strategy*  
Veronica Manfredi, European Commission, DG Environment

10.35 *Assessment of Next Generation EU interventions concerning the water sector: the institutional point of view*  
Davide Ciferri, Coordinator of the Next Generation EU Mission Unit of the Ministry of Infrastructure and Transport

10.50 *Assessment of Next Generation EU interventions concerning the water sector: the institutional point of view*  
Salvatore Corroppo, Director of the Office for General Affairs and Departmental Secretariat for the NRRP of the Ministry of Environment and Energy Security

11.05 *How European research and innovation can accelerate the implementation of the European water resilience strategy*  
Francesco Fatone, Scientific Technical Committee of Ecomondo and International Water Association Fellow

### **First Round Table**

Moderator: Attilio Toscano, Scientific Technical Committee of Ecomondo

Marco Delpero, WAREG – European Water Regulators

Fabio Fatuzzo, Extraordinary Government Commissioner for Purification and Reuse

Massimo Gargano ANBI

Tommaso Sabato, President of Acea Acqua

Alberto Romagnoli, Councilor responsible for Environment and Territory - Italian Council of Engineers

### **Second Round Table**

Moderator: Mario Rosario Mazzola, Utilitatis

Serena Triggiani, Puglia Region

Francesca Portincasa, Director of AQP

Attilio Toscano, Commissioner of Campolattaro Dam

Massimiliano Panero, Vice President Sogesid

Luigi Decollanz, President of Acque del Sud

Alessandro Rinaldi, Gruppo Iren

Discussion and closing by Session Chairs

*Thursday 6  
November*

10:30 - 12:30

Noce Room Hall A6

**Resource Efficiency and  
Circular Economy**  
[Click here](#)

## Circular Economy in Composites: Technologies, Applications and Perspectives

**Organized by: Comitato Tecnico Scientifico Ecomondo & CETMA**

Language:: Italian

The composite materials market is expanding rapidly, driven by strategic sectors such as sustainable mobility and renewable energy.

However, the increase in production also brings an environmental challenge: waste management in terms of both industrial waste and end-of-life materials. There are various solutions for recycling composite materials, including co-processing in cement kilns, pyrolysis, and mechanical recycling. Although these solutions have reached the industrialization phase, in some cases they involve significant down-cycling of the recycled material and will not be sufficient to manage the quantities expected in the coming years. It is therefore urgent to develop innovative and efficient recycling solutions.

This workshop will review the most advanced regulatory and technological prospects for recycling composite materials, focusing on:

- Innovative processes for the recovery of fiberglass and carbon fiber composites
- Industrial applications of recycled materials
- Role and opportunities for the supply chain: from producers to recyclers

### **Session Chair**

Alessandro Marseglia, CETMA

### **Program**

Greetings and Introduction by the Session Chair

*The Italian and European regulatory framework*

Roberto Frassine, ASSOCOMPOSITI / EUCIA

*The state of the art of composite waste management in Italy*  
Luca Gentilini, HAIKI COBAT

*New life for carbon fiber: the FIB3R plant*  
Daniele Biondi, HERAMBIENTE

*Promoting the demand for secondary materials in the production of composite parts*  
Marco Diani, FIBEREUSE TECH

*Innovative solutions for composite recycling*  
Andrea Tinti, CETMA  
Linda Leonardi, CETMA

Conclusions

*Thursday 6  
November*

**10:30 - 12:30**

Ravezzi 1 Room South  
Hall

**Resource Efficiency and  
Circular Economy**  
[Click here](#)

Measuring circularity from a systemic perspective across the entire value chain

**Organized by: Comitato Tecnico Scientifico Ecomondo & Scuola Superiore Sant'Anna, ENEA, Global Compact Network Italia**

Language:: Italian

The event will focus on measuring the circular economy, a topic that is increasingly felt at different levels: system, sector, enterprise, and product. Following the success of the 2022 and 2023 initiatives, this year's workshop will look at the evolution of circularity measurement considering both the development of national and international legislation standards and the diffusion of experiences in the different sectors.

In particular this year focus will be on methods and processes to measure circularity of products and services, by using innovative tools based on check-up approaches as well as LCA-based circularity indicators.

The workshop aims to present an overview of the different international and national approaches and then explore the usefulness of measurement with companies and associations that have applied the different approaches and can contribute to the refinement of the available tools.

### **Session chairs**

Marco Frey, Sant'Anna School of Advanced Studies, Interdisciplinary Center on Sustainability and Climate Change

Claudia Brunori, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) - Department of Productive and Territorial Systems Sustainability

### **Program**

10.30-10.45 Introduction

Marco Frey, Sant'Anna School of Advanced Studies

*Session: The evolution of international initiatives related to measurement in the circular economy*

10.45-11.00 *Technical standards for measuring circularity within national and international initiatives on circular economy regulation*

Laura Cutaia, ENEA - UNI 57 CT Chair

11.00-11.15 *Measuring circularity and accelerating its implementation: challenges and opportunities*

Serenella Sala, European Commission

11.15-11.30 *Monitoring the circular economy at EU level*  
Ioannis Bakas, European Environmental Agency

11.30-11.40 *How can we measure product circularity*  
Fabio Iraldo, Sant'Anna School of Advanced Studies

11.40-11.50 *Circular Life Cycle Sustainability Assessment: how to combine lifecycle sustainability assessment and the concept of circularity*  
Marzia Traverso, Institute for Sustainability in Civil Engineering, RWTH Aachen University

11.50-12.00 *Circularity approaches in a PNRR Project (GRINS)*  
Bruno Notarnicola, University of Bari

12.00-12.10 *Circularity in the fashion supply chain*  
Enrico Cancila, Arter

12.10-12.20 *The experience of Itelyum in regeneration*  
Marco Codognola, Itelyum

12.20-12.30 *The Circularity of the CONOU Model*  
Riccardo Piunti, CONOU

12.30 Discussion and closure by the Chairs

*Thursday 6  
November  
10:30 - 16:30*

Agorà Ariminum -  
Circular Economy Area  
Hall D1

**Resource Efficiency and  
Circular Economy**  
[Click here](#)

REUSE, REPAIR and ECO-DESIGN. The "magic" circles of Circular Economy

**Organized by: Comitato Tecnico Scientifico Ecomondo**

Language:: English  
Instant translations:: Italian

This conference intends to emphasize the most "noble" approaches of the circular economy: reuse, durability and repairability and, logically, eco-design. We will do so by presenting points of view and testimonies of an international scenario within the industrial manufacturing sector with respect to sustainability, observed from the point of views of policy makers, research, training and, obviously, manufacturer and operators.

We intend to take stock of this phenomenon today in the panorama of production and scientific applications, involving some excellent experts as well as companies that in an original and courageous way are generating strongly recognized value through a transition to solutions based on these approaches.

The event is organized in two sessions, each of which focuses on the different dimensions of sustainability mentioned above (tangible and intangible). Each session includes inspirational interventions as well as case studies that show how those concepts are translated into real business in the EU.

The first session will give a broad overview and will serve as an introduction to the second one that will focus on the textile sector.

The second session will be directly connected with the textile exhibition area where leading companies are showcasing their activities in the field of circular economy. Those companies will be the key actors in our discussion in a dynamic exchange with policy makers, trainers and researchers. A new way to help key players shaping the future together.

## **Program**

10.30-12.30 **SESSION 1. *Setting the context***

Moderators:

Angelo Salsi, former Head of Department CINEA - European Commission

Francesco Matteucci, former Program Manager at EISMEA - European Commission

*Repair, Re-use and eco-design: Principles, Numbers and Perspectives*

Federico Brugnoli, CEO & Founder of SPIN360

*The contemporary edge of EU policy*

Aurel Ciobanu Dordea, Director Competitive Circular Economy and Clean Industrial Policy,  
European Commission

*Case study Related to Sustainability in its REPAIR Dimension*

Julien Oet, Chief Transformation & Sustainability Officer, BOULANGER

*Results of a study on preparation for re-use of WEEE*

Irene Pellucchi, ERION

*Unveiling life cycle impacts of single use and multiple use packaging*

Andrea Amadei, Project officer, Joint Research Centre, European Commission

*The WEB second hand market: how did it all start?*

Marco Sepulcri, Senior Category Manager, eBay

Q&A

12.30-14.30 Lunch Break

## 14.30-16.30 **SESSION 2. Reuse, Repair and Eco-Design in the textile sector**

Moderator:

Federico Brugnoli, CEO & Founder of SPIN360

*The circularity of textiles and relevant EU policies*

Joannis Bakas, Circular Economy Monitoring Expert, European Environment Agency

*How Region Emilia-Romagna may lead the way in Reuse, Repair and Eco-Design*

Manuela Ratta, Policy Officer Direzione generale conoscenza, ricerca, lavoro e imprese -  
Settore Innovazione sostenibile, Imprese, Filiere Produttive - Regione Emilia Romagna

*Educating and training tomorrow experts for circular economy in the textile sector*

Francesca Romana Rinaldi, Director Monitor for Circular Fashion, SDA Bocconi

*Circular economy in textile: complementarity between mechanical and chemical recycling*

Michele Modesti, Professor, University of Padua

Debate: A few textile companies and/or consortia exhibiting or participating in Ecomondo 2025 will be invited to participate to an open debate. Companies will be able to ask questions, suggest solutions and express needs in an open debate with all speakers invited to this event representing the following sectors: EU and National policy making, research, training, secondhand market and other manufacturing sectors.

Closing statements

Thursday 6  
November  
10:30 - 13:00

Agorà Malatesta -  
Environmental Monitoring  
Area Hall D7

**Water Cycle and Blue  
Economy**  
[Click here](#)

## Groundwater: knowledge, best practices and perspectives

**Organized by: Comitato Tecnico Scientifico Ecomondo & Autorità di Bacino Distrettuale del fiume Po, ISPRA**

Language:: Italian

The conference will focus on methodology and modeling to increase knowledge of the amount of water available in aquifers. And in parallel to monitor and collect data on the quality of aquifers. In situations of climate change and periods of water scarcity, the availability of groundwater could help maintain ecological balance and could be a supply for agricultural needs. Ispra will present the map of aquifers: an important knowledge tool for planning.

### Session Chairs

Fernanda Moroni, Po River District Basin Authority (ADBPO)

Fabio Pascarella, Italian Institute for Environmental Protection and Research (ISPRA)

### Program

10.30 Greetings and introduction

10.40 *The hydrogeological map of Italy scale 1:500,000*

Francesco La Vigna, ISPRA

10.55 *The MIDAS Po project*

Cesare Vasini, ADBPO

Filippo Battaglini, ADBPO

11.10 *What prospects?*

Giovanni Beretta, University of Milan

11.25 *Balancing data and models for better predictions*

Frans Schaars, Artesia (NL)

11.25 *Round table*

Moderator:

Andrea Gavazzoli, Science journalist

Speakers:

Paolo Romano, Utilitalia

Desdemona Oliva, Director of Research and Development, Gruppo CAP

Maurizio Gorla, Head of the GSS Office, Gruppo CAP

Paola Mercogliano, Euro-Mediterranean Center on Climate Change

Marco Marcaccio, Arpae

Conclusions

Alessandro Bratti, Scientific Technical Committee Ecomondo

Thursday 6  
November

14:00 - 16:30

Diotallevi 1 Room South  
Hall

International  
Cooperation and  
Partnerships with  
Mediterranean and  
Africa

[Click here](#)

Africa Green Growth Forum: 5th edition. The Mattei Plan: dialogue between institutions and the private sector for Africa's sustainable development

**Organized by: Comitato Tecnico Scientifico Ecomondo**

Language:: English

Instant translations:: Italian,French

**With the collaboration of:**

**Mattei Plan Task Force at the Presidency of the Council of Ministers, Ministry of the Environment and Energy Security, Ministry of Foreign Affairs and International Cooperation, Confindustria Assafrica & Mediterraneo, RES4Africa**

Building on Italy's long-standing partnership with African nations, the Mattei Plan promotes a new model of cooperation based on mutual development, shared prosperity, and joint action for climate resilience. Within this framework, the Africa Green Growth Forum serves as a platform to foster dialogue between governments, development institutions, and the private sector to advance sustainable growth and inclusive energy access across the continent.

Access to reliable and affordable energy remains a critical challenge in Sub-Saharan Africa with nearly 600 million people living without access to electricity and large segments of the population live in rural areas where energy infrastructure is lacking.

Improving access to energy access to these communities means access to clean water and sanitation but also stimulates rural development through agricultural mechanization, value-added processing, and the growth of a sustainable local value chain.

This new edition of the Forum will highlight the sustainable and clean energy access initiatives in Africa promoted under the Mattei Plan and the **Program "Mission 300"**, a multilateral program led by the World Bank and the African Development Bank that aims to provide clean and reliable electricity to 300 million people in Sub-Saharan Africa by 2030. Through this partnership, the Forum will explore how coordinated public and private investments can unlock new opportunities for sustainable development, improving living conditions, reduce poverty, and foster inclusive economic growth. The alignment between the Mattei Plan and Mission 300 underscores Italy's strong commitment to supporting Africa's clean energy transformation and to promoting a just and equitable energy transition across the continent.

The event builds on the actions and commitments made during the 2025 Africa Head of State Energy Summit, held in Dar es Salaam, Tanzania and reaffirms Italy's long-standing cooperation with African Partners and major International Financing Institutions (IFIs) in advancing shared objectives for sustainable growth and climate resilience.

## **Program**

Moderator:

**Silvia D'Ovidio**, RES4Africa

14.00 **Greetings**

**Fabio Fava**, President of Ecomondo Scientific Technical Committee

14.05 **Opening remarks by Italian Institutional Representatives**

**Cons. Fabio Massimo Ballerini**, Director at Mattei Plan Task Force - Presidency of the Council of Ministers

**Min. Plen. Fabrizio Lobasso**, Directorate General for the Promotion of the Country System, Ministry of Foreign Affairs and International Cooperation

**Giulia Pinna**, Stakeholder Engagement at Directorate General for European, International and Sustainable Finance Affairs - Ministry of Environment and Energy Security

#### 14.35 Round table

***The sustainable and clean energy access initiatives in Africa promoted under the Mattei Plan and the Program "Mission 300"***

**Robin Hendrix**, World Bank Group

**Davinah Milenge Uwella**, African Development Bank

**Gustave Aboua**, Ministry of the environment and sustainable development (MINEDD) of Côte d'Ivoire

#### 15.05 Round table

***Opportunities to promote partnerships and green investments in Africa***

**Angela Giordano**, Confindustria Assafrica & Mediterraneo

**Carlo Cecchetti**, RES4Africa

**Giorgio Massotti**, CDP

**Paola Valerio**, SACE

**Francesca Alicata**, SIMEST

**Roberto Rando**, European Investment Bank

#### 16.05 Round table

***Business stories from companies operating in Africa***

Moderator:

**Angela Giordano**, Confindustria Assafrica & Mediterraneo

**Roberto Sancinelli**, President Montello SpA

**Omar Cescut**, CEO BTT Impianti

**Bruno Ferrarese**, Co-President Idrobase Group

16.30 Closure

**Thursday 6  
November  
14:00 - 17:00**

Noce Room Hall A6

**Policies and Regulatory  
Frameworks**

[Click here](#)

Towards the new landfill bat

**Organized by: Comitato Tecnico Scientifico Ecomondo & Assoambiente**

Language:: Italian

Directive (EU) 2024/1785 also amended Directive 1999/31/EC on the landfill of waste by removing the provision that currently allowed the requirements set out in Directive 1999/31/EC to be recognised as BAT for the sector.

The adoption of conclusions on BAT for landfills under Directive 2010/75/EU should address the main environmental issues related to the operation of waste landfills, including methane emissions. In relation to the start of preparatory work at European level to define the new BAT for landfills, we discuss this with some industry representatives.

#### **Program**

Moderator:

Elisabetta Perrotta, Assoambiente Director

Speakers:

Paolo Campanella, General Secretary FEAD (European Waste Management Association)

Luca Proietti, Ministry of Environment and Energy Security

Andrea Lanz, ISPRA

Federico Poli, La Filippa

Riccardo Viselli, Utilitalia

Pierpaolo Lombardi, Ecologica Viterbo

Discussion e conclusions

Elisabetta Perrotta, Assoambiente Director

Thursday 6

November

14:00 - 17:00

Neri 1 Room South Hall

**Resource Efficiency and  
Circular Economy**

[Click here](#)

## Italy responds to CRM Act: re-starting from strategic projects

**Organized by: Ecomondo STC & University of Turin, Joint Research Centre - European Commission**

Language:: Italian

The European Commission has launched the CRM Act in spring 2024 and adopted the Regulation 2024/1252 in 1 year record time. With a similar fast-track process, the EC has recognized 47 strategic projects for the EU, in March 2025 through the Commission Decision C (2025) 1904 final.

These are signals that secure and sustainable access to critical raw materials (CRM) for green and digital transitions are not anymore just a concern but are being turned into structured planning & concrete actions. This session, organized by the ECOMONDO Scientific Committee, the University of Torino, and the European Commission JRC, brings together key players, including the government, the geological survey, research bodies and industry to discuss key elements of an Italian response to the CRM Act. The session equally builds on a necessary dialogue and synergies at EU and international level, without which single-nation efforts or un-balanced national strategies are unlikely to reach the critical mass and obtain meaningful results.

### Session Chairs

Gian Andrea Blengini, University of Turin

Serenella Sala, JRC

### Programme

14.30 Introduction by the Chairs

14.40 *The National Fund in support of CRM projects.*

*Current activities in response to the Europe's Critical Raw Materials Act. Strategic projects and the Italian way forward*

Francesco Tenuta or Alberto Castronovo, Italian Ministry of Enterprises and Made in Italy (MIMIT)

15.00 *Current state of implementation of Europe's Critical Raw Materials Act.*

*Focus on Strategic Projects (round 1 and launch of round 2). A high-level keynote to frame the role of EO within the EU's strategic vision for raw materials, highlighting synergies with the Green Deal Industrial Plan and the Net-Zero Industry Act*

Gerardo Herrera, European Commission - DG GROW

15.20 *The EC's Raw Materials Information System (RMIS):*

*understanding key drivers of supply risks and solutions related to circularity and advanced materials* Serenella Sala, European Commission - JRC

15.30 **Panel discussion: *major developments in Italy in response to the CRM Act***

Coordination among major players. Industry perspectives. The EU and international dimension. The role of science, R&D and science for policy of strategic projects to enhance circularity and control environmental impacts.

Panelists:

*Strategic projects for the EU (4 in Italy on recycling, out of 10 in the EU)*

Francesca Salvemini, Italian Ministry of Environment and Energy Security

*The National Exploration Programme (PNE) and the mapping of extractive waste (URBES)*

Fiorenzo Fumanti, ISPRA

*Application and benefits of the United Nations Framework Classification (UNFC) to extractive or recycling projects in Italy*

Erika Ingvald Griffith, UNECE

*Strategies for a secure and sustainable supply of CRMs for the automotive sector*

Nello Li Pira, Stellantis

*Projects in the pipeline in Italy for the production of silica sand (silicon metal grade), feldspar and natural graphite, as well as lithium in France*

Eugenio Salvaia, Imerys

*Geospatial data to map and handle internal/external constraints to the uptake of strategic projects (technological, social, financial, etc.)*

Claudia Baranzelli, OECD

16.20 Wrap-up by the Chairs

*Thursday 6  
November*

14:00 - 18:30

Agorà Flaminia - Sites &  
Soil Restoration Area Hall  
C1

**Sites and Soil  
Maintenance and  
Restoration**  
[Click here](#)

Innovative and sustainable strategies for contaminated sites remediation: evolutions in national and international applied research

**Organized by: Comitato Tecnico Scientifico Ecomondo & Sapienza Università di Roma, UNEM, ISPRA**

Language:: Italian

[> Go to the conference posters <](#)

The session "Sustainable strategies for the remediation of polluted sites: developments in national and international applied research", which will be held on November 6th as part of Ecomondo 2025, presents a broad overview of the most recent developments in applied research, with particular attention to the integration between biotechnological approaches, in situ technologies and tools for sustainable environmental remediation management.

The first part of the session will be dedicated to the presentation of the European cluster ALL4BIOREM, with three projects addressing the topic of systemic bioremediation of contaminated habitats, synergistic integration for mixed pollutant removal and circular solutions for environmental sustainability. Following this, several national and international case studies will illustrate the application of innovative technologies such as combined injection of ISCR, oxygen and surfactants, advanced biomolecular characterization for chlorinated solvent decontamination, full-scale applications of ERD and ISCO technologies, as well as solutions for PFAS contamination remediation in high-concentration source areas.

Multidisciplinary initiatives that combine remediation with urban regeneration, the use of waste materials in in situ treatments, soil mixing techniques, and tools for regulatory framework and sustainable reuse of brownfield sites will also be presented. The session will conclude with examples of Nature-Based Solutions, high-resolution monitoring, and proposals for defining operational guidelines.

Alongside the oral presentations, a rich poster session will enrich the program, including over twenty contributions regarding operational experiences in Sites of National Interest (SIN), new technologies for aquifer treatment, circular and sustainable approaches to waste and contaminated materials management, the use of biochar and innovative biosorbents, and digital tools for monitoring and managing contaminated sites.

### Session Chairs

Marco Petrangeli Papini, University of Rome "La Sapienza"  
Donatella Giacometti, UNEM  
Fabio Pascarella, ISPRA

### Program

14.00 Greetings and introduction by the Session Chair and presentation of ALL4BIOREM cluster projects: structure and mission  
Philippe Corvini, FHNW (CH)

14.10 ALL4BIOREM cluster projects

1) *Symbiotic, circular bioremediation systems and biotechnology solutions for improved environmental, economic and social sustainability in pollution Control, Symbiorem*  
Leire Ruiz Rubio, University of the Basque Country, ES

14.20 ALL4BIOREM cluster projects

2) *BIOremediation systems exploiting SYnergieS for improved removal of Mixed pollutants Biosysmo*  
Sara Gil Guerrero, Universidad de Burgos, ES

14.30-14.40 ALL4BIOREM cluster projects

3) *New system-driven bioremediation of polluted habitats and environment*  
Nymphe, Giulio Zanaroli - University of Bologna

14.40 *In situ burning of marine oil spills*

Nicolas Kalogerakis (TU-Crete, Chania, Greece)

14.50 *Case study: combination of different technologies (ISCR, micro-diffusion of O2 and surfactant injection) for groundwater remediation*

Davide Calloni, Lorenzo Rabuffetti - HPC Italia S.r.l

15.05 *Insights into the Bioremediation Potential of a Chlorinated Solvent-Contaminated Site: A Case Study of Comprehensive Biomonitoring and Development of a New Dechlorinating Culture*

Matturro Bruna, Niccolini Luca, Vuagnin Giorgia, Deli Giorgia, Rossetti Simona - Water Research Institute of the National Research Council, IRSA-CNR, Rome, IT; Di Curzio Diego, Department of Geoscience, University of Padova, Padova, IT; Ottosen Cecilie F., Broholm Mette M. - Department of Environmental and Resource Engineering, Environmental Contamination & Chemicals, DTU, Denmark

15.20 *Towards a territorial approach to remediation of diffuse solvent contamination in groundwater*

Andrea Campioni, Ramboll Italy; Andrea Sconocchia, ARPA Umbria

15.35 *Full-scale Application in Italy of an ERD Technology for the treatment of an Aquifer Impacted with Chlorocarbons near a salt pond ecosystem*

Alberto Leombruni, Michael Mueller - Evonik Operations GmbH; Fayaz Lakhwala and Daniel Leigh, Evonik Corporation, LLC

15.50 *The MIBIREM project for a legacy contaminant, the case of the hexachlorocyclohexane*

Simona Di Gregorio, Giacomo Bernabei, Giampiero De Simone - University of Pisa, Department of Biology, IT

16.05 *ISCO technology applied with Soil Mixing method*

Riccardo Crespi and Natale Pezzimenti - ENI Rewind

16.20 *Innovative in situ remediation of PFAS-contaminated aquifers in high-concentration source areas – From applied research to field application*

Mariangela Donati, Luca Basler - REGENESIS

16.35 *AIA and Contaminated Sites: possible scenarios on the occasion of the cessation of activity and reference relation model*

Paola Canepa, Nadia Tomasini - ARPA LOMBARDIA Technical Directorate Controls and Anthropic Risk Prevention

16.50 *Robustness and resilience of a combined process, employing waste materials, for the remediation of TCE-contaminated aquifers*

Micaela Abruzzese, Laura Lorini, Naima Blal, Marco Petrangeli Papini - University of Rome "La Sapienza", Bruna Matturro (IRSA – CNR)

17.05 *Sustainable Approaches to Urban Regeneration – Innovative Management of Fill Materials*

Andrea Gasperini, Marialuisa Cremonesi - Jacobs

17.20 *GOCCIA (Green Opportunities to Clean-up Contaminants through an Interspecies Alliance): an open-air laboratory for the application of Nature-based Solutions (NbS) in the context of urban regeneration*

Massimiliano Baric, Tatiana Stella, Silvia Leoci - M3R-Monitoring and Management of Microbial Resources Srl, Milan; Gianluca Rapaccini, Stefano Zola - Terrapreta Srl, Milan; Laura Passatore, Massimo Zacchini, Isabel Nogues, Fabrizio Pietrini - Institute of Research on Terrestrial Ecosystems, National Research Council, IRET-CNR, Montelibretti, RM

17.35 *Guidelines for sustainable valorization of brownfield sites: an integrated approach for defining remediation and reuse strategies*

Simone Gobber, Luca Piccapietra, Alessandra Russo, Paola Ceoloni - Stantec S.p.A.; Chiara Michelotti, Riccardo Puddu - Eni Rewind

17.50 *High-resolution investigation technology MIP-OMS*

Veronica Arduini, Luca Moresi, Claudio Carusi - Mares S.r.l.

### **Poster Session**

1. *INDAGINI SUI SITI CONTAMINATI IN CAMPANIA: L'ESPERIENZA DELLA TERRA DEI FUOCHI*

Adriano Pistilli Responsabile Tecnico Gestione Rifiuti - Libero professionista

2. *Bonifica del S.I.N. "Napoli Orientale": a che punto siamo?*

Adriano Pistilli Responsabile Tecnico Gestione Rifiuti - Libero professionista

3. *BONIFICA DELL'EX S.I.N. LITORALE DOMITIO FLEGREO ED AGRO AVERSANO: A CHE PUNTO SIAMO?*

Adriano Pistilli Responsabile Tecnico Gestione Rifiuti - Libero professionista

4. *BONIFICA DELL'EX S.I.N. AREE DEL LITORALE VESUVIANO: A CHE PUNTO SIAMO?*

Adriano Pistilli Responsabile Tecnico Gestione Rifiuti - Libero professionista

5. *BONIFICA DELL'EX S.I.N. BACINO IDROGRAFICO DEL FIUME SARNO: A CHE PUNTO SIAMO?*

Adriano Pistilli Responsabile Tecnico Gestione Rifiuti - Libero professionista

6. *BONIFICA DELL'EX S.I.N. DI PIANURA: A CHE PUNTO SIAMO?*

Adriano Pistilli Responsabile Tecnico Gestione Rifiuti - Libero professionista

7. *WASTE MANAGEMENT*

Mokom Divine CHO, Divine Management and Services, Camerun

8. *Utilizzo di reagenti gassosi per la bonifica e la messa in sicurezza di acquiferi contaminati: alcuni casi applicative*

Andrea Crema, Michela Peroni, Eleonora Pasinetti - SIAD SPA

9. *Sustainable strategies for the remediation of polluted sites in oil industry in Algeria*

Amina Tounssi, University of Algiers, Faculty of Economic and Commercial Sciences, Department of Financial and Accounting Sciences

10. *Il S.I.N. della ex miniera di amianto di Balangero e Corio (Torino): bonifica e riqualificazione del sito*

Gian Luigi Soldi, Elisa Liliana Pugliaro, Giovanni Battista Poma, R.S.A. S.r.l. - Società a capitale interamente pubblico per il risanamento e lo sviluppo ambientale dell'ex miniera di amianto di Balangero e Corio, BALANGERO, TO

11. *La piattaforma di monitoraggio in cloud per i siti contaminati*

Parisi Davide, Almaviva

12. *Processo combinato di adsorbimento biodegradazione per la bonifica di falde contaminate da solventi clorurati: un esempio di circolarità*

Naima Blal, Marco Petrangeli Papini - Tirreme Srl

13. *L'importanza di una corretta modellizzazione geologica ed idrogeologica nell'ambito del risanamento ambientale - l'esempio della discarica di Malagrotta*

Andrea Pocher, Cesare De Bernardi, Biancamaria Cazzaniga, Marina Stoppa, Giulia Di Vincenzo, ARCADIS

14. *Caso studio di bonifica terreni di un impianto metallurgico: sperimentazione di un trattamento combinato di soil washing e trattamenti mineralurgici*

Alberto Mereu, Davide Calloni, Pier Paolo Manca - HPC Italia

15. *Presentazione dell'elaborazione dei dati degli scarichi per la predisposizione del BREF STM*

Nadia Tomasini, ARPA LOMBARDIA

16. *Linee di indirizzo per il monitoraggio del suolo e delle acque sotterranee per le installazioni soggette ad AIA*

Paola Canepa, Nadia Tomasini - ARPA LOMBARDIA, Direzione Tecnica Controlli e Prevenzione Rischio Antropico

17. *Piano di monitoraggio e controllo tipo per le installazioni AIA soggette alla categoria 4. Industria chimica*

Nadia Tomasini, ARPA LOMBARDIA, Direzione Tecnica Controlli e Prevenzione Rischio Antropico

18. *Sustainable remediation of contaminated sites: the case study of the Mar Piccolo of Taranto*

Francesco Cardellicchio, CNR-IMAA, Istituto di Metodologie per l'Analisi Ambientale, Tito Scalo, PZ

19. *Tecnologia di bonifica su solventi clorurati mediante applicazione di nanoremediation*

Riccardo Crespi e Alessandro Ferrari, ENI Rewind

20. *Biochar da residui legnosi: una strategia sostenibile per il recupero dei suoli degradati*  
Nicola Secchi, Eurovix Spa; Isabel Nogues, Laura Passatore, Massimo Zacchini, Fabrizio Pietrini, Serena Carloni - Research Institute on Terrestrial Ecosystems, National Research Council, Montelibretti; Eleonora Peruzzi, Research Institute on Terrestrial Ecosystems, National Research Council, PISA; Sara Marinari, Department for Innovation in Biological, Agrofood and Forest systems, University of Tuscia; Luisa Massacesi, Institute for Agriculture and Forestry Systems in the Mediterranean, National Research Council, Perugia; Valentina Mazzurco, Miritana, Department of Energy Technology and Renewables, Italian National Agency for New Technologies, Energy and Sustainable Economic Development

21. *Innovative Biosorbent materials for PFAS removal from contaminated water*  
Marta Senofonte, Laura Lorini, Giulia Simonetti, Carmela Riccardi, Marco Petrangeli Papini - University of Rome "La Sapienza"

22. *Framework per una gestione circolare e sostenibile degli interventi di bonifica per la valorizzazione delle tecnologie innovative*  
Giulia Meneghin, Petra Scanferla, Giorgia Di Carlo, Antonio Sellitri, Angela Bonfà - Fondazione Università Ca' Foscari; Silvia Anna Frisario - Eni Rewind

Thursday 6  
November

14:00 - 17:30

Agorà Tiberio - Water  
Cycle Area Hall D8

Water Cycle and Blue  
Economy  
[Click here](#)

Alternative water sources for drinking water, agriculture and industry:  
desalination and water reuse

**Organized by: Comitato Tecnico Scientifico Ecomondo & ISS, Utilitalia, Università Politecnica delle Marche, Università di Bologna, Autorità di Bacino del Fiume Po, Water Reuse Europe**

Language:: Italian

> Go to the conference posters <

According to Water Europe, water scarcity already affects 29% of the territory and 38% of the EU population and jeopardizes key industries such as semiconductors, data centres, renewable hydrogen, and electric vehicle battery production. Water scarcity poses a serious threat to human communities and ecosystems, endangering not only economic progress but also the ecological balance needed to sustain future growth and protect our natural capital for future generations. The EU Commission estimated that the EU could face €1.6 trillion in annual damages if the continent does not manage water in an integrated manner. Advanced technologies for alternative water sources could save billions and create new jobs. This workshop will present full scale case studies and innovative solutions tested at relevant technology readiness levels, including relevant focus will be also on energy efficiency and environmental impacts of desalination and water reuse systems, as well as cost analysis and economic feasibility of alternative water sources.

### Session Chairs

Attilio Toscano, Ecomondo Scientific Technical Committee & University of Bologna  
Francesco Fatone, Ecomondo Scientific Technical Committee & Marche Polytechnic University  
Roberta Maffettone, European Commission Joint Research Centre  
Susanna Murtas, Italian National Institute of Health

### Program

14.15-15.45 **Panel. Water reuse value chain: from technical solutions to risk management**

*Water Reuse in the European Union: latest updates about Risk Management Approach According to the Regulation (EU) 2020/741*

Roberta Maffettone, European Commission Joint Research Centre

*Between Infringement and Reuse: the viewpoint of Italy's Extraordinary Commissioner for Water Treatment*

Fabio Fatuzzo, Extraordinary Commissioner for Water Treatment

Francesco Fatone, Ecomondo Scientific Technical Committee & Marche Polytechnic University

*Water reuse risk management plans: towards best practice*

Susanna Murtas, Italian National Institute of Health

Massimiliano Sgroi, Marche Polytechnic University

*Reuse in Italy: the UTILITALIA review and perspective*

Tania Tellini, UTILITALIA

Elena Mauro, UTILITALIA

*Potential and feasibility of water reuse for irrigation purposes in the Province of Bologna*

Attilio Toscano, Ecomondo Scientific Technical Committee & University of Bologna

Paolo Gelli, HERA

Michele Solmi, Consortium of Bonifica Renana

*Managing contaminants of emerging concern for wastewater reuse in agriculture: integrated approaches to reduce environmental and human health risk*

Manuela Antonelli, Polytechnic University of Milan

*Selection of indicators for emerging contaminants in water reuse projects*

Paola Verlicchi, University of Ferrara

Conclusions

Simona Ricci, Italian Ministry of Environment and Energy Security

15.45-18.00 **Speeches selected from Call for Papers**

**INDUSTRIAL WATER REUSE**

*State of art analysis of water reuse: case studies in installations regulated under the Industrial Emissions Directive*

Geneve Farabegoli, Federico Blesi, Maria Cortese, Paola Giorgioli, Chiara Giuliani, Federica Principato, Simona Spuri - Italian Institute for Environmental Protection and Research (ISPRA)

*Moda circolare: come Tintoria Emiliana riusa acqua e sali grazie alla tecnologia EMER di Iride Acque*

Francesco Capoti, COO, Iride Acque

*Riutilizzo delle acque reflue per il lavaggio dei fermentatori in una cantina vitivinicola*

Nicola Prandi, Akvo Solutions Srl

Paolo Roncarati, Akvo Solutions Srl

**DESALINATION AND ALTERNATIVE WATER SOURCES**

*Impianti di Dissalazione modulari containerizzati. L'esperienza siciliana*

Mauro Casti, Acciona Agua S.A.

*Impianti di dissalazione dell'Isola d'Elba*

Representative of SUEZ (TBC)

*Impianti di dissalazione sostenibili ed efficienti*

Roberto Bausani, GRUNDFOS

## INNOVATIVE AND ALTERNATIVE WATER PRODUCTION AND SUPPLY

*Grandi impianti di potabilizzazione di acque superficiali: l'esperienza dell'impianto emergenziale*  
Marco Lazzazzara, Simone Leoni, Giancarlo Cecchin - Acea Infrastructure S.p.A; Luca Di Ruzza, Ilaria Miozzo, Fabrizio De Rosa - Acea Ato2 S.p.A.

*Il possibile ruolo dei laghi di cava nel riuso dell'acqua. Pre-potabilizzazione e trattamenti quaternari*

Bianco Prevot A., Bonetta S., Bonetta S., Carena L., Carraro E., Cocca D., De Luca D., Egidio E., Lasagna M., Minella M., Pignata C., Pigozzi G., Vione D. - Università di Torino, Italia

*Water Credit e riutilizzo delle acque reflue: uno strumento nella strategia di sviluppo dell'economia circolare per Gruppo CAP*

Giovanni Vargiu, CAP Evolution

*Water regeneration through a forested infiltration pond utilizing Volumetric Water Benefit Accounting*

Fabiana Marchini (a), Alessandro Negri (a), Meggiorin Mara (b), Giada Restuccia (b), Domenico Fracchiolla (b), Fabio Colombo (b) - (a) Sanpellegrino; (b) Ramboll

*Acqua e Sviluppo: la digitalizzazione delle reti irrigue*

Paolo Ridella, Direttore Tecnico e Commerciale, Almaviva Bluebit

*Monitoraggio della monocloroammina per una Blue Economy sostenibile: nuove soluzioni tecnologiche*

Marco Zocchi, Stefano Malusardi

### **Poster Session**

**1. Engineered zeolite–MOF composites from valorised rice-husk ash waste for ultrafast organic pollutant degradation for water remediation applications**

R. Boada, H. Luan, M. Valiente - GTS-UAB Research Group, Department of Chemistry, Faculty of Science, Universitat Autònoma de Barcelona, Spain; D. Caterino, M. Sgroi, F. Fatone - Department of Science and Engineering of Materials, Environment and Urban Planning - SIMAU, Polytechnic University of Marche, Italy; A. R. Ruiz-Salvador, Departamento de Sistemas Físicos, Químicos y Naturales y Centro de Nanociencia y Tecnologías Sostenibles (CNATS), Universidad Pablo de Olavide, Spain; M. Ballesteros, Centro de Nanociencia y Tecnologías Sostenibles (CNATS), Departamento de Biología Molecular e Ingeniería Bioquímica, Universidad Pablo de Olavide, Spain; T. Farias, Instituto de Ciencia y Tecnología de Materiales, Universidad de La Habana, Cuba

**2. Progetto OASI**

AESS, Agenzia per l'Energia e lo Sviluppo Sostenibile

**3. Gestione del Servizio Idrico Integrato: la gara a doppio oggetto per la trasformazione da Società in house in Società mista per l'individuazione del Socio privato e l'affidamento di lavori oltre che per la gestione del S.I.I. in convenzione: il caso dell'EGATO Ovest Imperia**

Cecilia Brescianini, Sub Commissario ad Acta EGATO Ovest; Manuela Pertici, ARPAL Liguria; Katia Giordano, Regione Liguria; Rodolfo Lengueglia, Regione Liguria

**4. Analisi CFD per l'Ottimizzazione del Mixing Idraulico nell'Impianto di Depurazione di Truccazzano: Un Caso Studio di Gruppo CAP**

Roberta Muoio, Giacomo Bellandi, Usman Rehman, AM-Team, Advanced Modelling for Process Optimisation, Ghent, Belgium; Matteo Cascio, Roberto Di Cosmo - Cap Holding Spa Gruppo CAP - Cap Holding Spa, Italy

**5. Riutilizzo industriale dell'acqua: la crescente necessità di mitigare la scarsità idrica**

Roberto Bonacina, DESOTEC INTERNATIONAL NV

Thursday 6  
November  
14:00 - 16:00

Agorà Augusto -  
Bioeconomy Area Hall D1

Circular and  
Regenerative  
Bioeconomy  
[Click here](#)

## Biodiversity and Agriculture: a possible alliance?

**Organized by: Comitato Tecnico Scientifico Ecomondo & Autorità di Bacino Distrettuale del fiume Po (ADBPO)**

Language:: Italian

### Session Chairs

Alessandro Bratti, Scientific Technical Committee Ecomondo and International Network of Basin Organizations (INBO)  
Fernanda Moroni, Po River District Basin Authority (ADBPO)

### Program

14.00 Introductory speeches

*Natural capital as a lever for ecological transition*

Francesco Tomas, Italian Ministry of Environment and Energy Security

*Biodiversity and territories: the new Basin planning for shared environmental governance*

Paola Gallani, ADBPO

Francesca Luppi, ADBPO

14.40 *Acting together for biodiversity: which tools, which pacts, which alliances?*

Moderator:

Andrea Gavazzoli, Science journalist

Speakers:

Stefano Calderoni, CIA

Pier Giovanni Capellino, Almo Nature - Cappellino Foundation

Giuseppe Dodaro, Sustainable Development Foundation

Raffaella Zucaro, CER

Alberto Cavazzini, CREA

Lorenzo Ciccarese, ISPRA

Thursday 6  
November  
14:15 - 16:00

Ravezzi 2 South Hall

Policies and Regulatory  
Frameworks  
[Click here](#)

## Furniture and furnishings in the EPR perspective. New scenarios and the Italian project

**Organized by: Comitato Tecnico Scientifico Ecomondo & Reteambiente, CNSA, FederlegnoArredo**

Language:: Italian

While Extended Producer Responsibility systems and new Ecodesign strategies are being developed throughout Europe, a new EPR project for furniture and other furnishing products is being launched in Italy. Made in Italy design companies, now leaders at international level, are becoming exponents of new production and consumption models and are creating a system to promote the Circular Economy through the use of sustainable materials, the extension of product life cycles, and the organisation of networks for collection, recycling, repair and quality reuse.

An overview of the innovations and actions underway, through the evaluations and testimonies of the relevant institutions and the protagonists of the new system.

### Session Chair

## Program

14.00 Registration of participants and start of work

14.15 *The PER project and the commitment of furniture companies*

Vannia Gava, Deputy Minister, Ministry of the Environment and Energy Security

Claudio Feltrin, President of FederlegnoArredo and the National Consortium for the Furniture System

Maria Porro, President Assoarredo - Vice President of the National Consortium of Furniture Systems

Francesco Beneventi, Directorate General for Circular Economy and Remediation (ECB), Ministry of the Environment and Energy Security (TBC)

Francesco Iacotucci, Expert Consultant ANCI

Alessandra Zampieri, Director European Union, European Commission, Joint Research Centre

Alessandra Stefani, President of the National Cluster Italy Forest Wood.

Fabien Cambon, Ecomaison Technical and Innovation Director

16.00 Conclusions

## REGISTRATION IS MANDATORY

*Thursday 6*

*November*

14:30 - 17:30

Circular & Healthy City  
District - Workshop Area  
Hall D3

**Circular and Healthy  
Cities**

[Click here](#)

Cities to live in. Solutions for designing a balanced and cohesive health governance in cities

**Organized by: Comitato Tecnico Scientifico Ecomondo**

Language:: Italian

### Program

Moderator:

Chiara Spinato, Head of Health, Equal Opportunities and Active Labor Policies Office ANCI

THE DIMENSION OF EUROPEAN AND INTERNATIONAL COMMITMENT TO URBAN HEALTH

*Combating health poverty. The objectives achieved by the PNES*

Barbara Labella, General Secretariat, Office 4 Management of European Funds implementation programs

THE VOICE OF ITALY: RESEARCH AND PROJECTS FOR HEALTHY TERRITORIES

*The "Cities after dark" project*

Simone d'Antonio, Lead Expert URBACT Cities After Dark

*The "Tiny Forest" project*

Simonetta Lombardo, Silverback

*Sustainable mobility*

Massimo Marciani, President Freight Leaders Council

*TERRA Project - Taranto: Resilient Ecosystems and Reforestation for the Environment*

Gregorio Sgrigna, Phytotech - CNR

*Biocities*

Giuseppe Scarascia Mugnozza, Head of BioCities Facility, EFI-European Forest Institute

### *Indoor air quality*

Gaetano Settimo, Coordinator of the National Study Group on Indoor Pollution, Istituto Superiore di Sanità-ISS

### *Air purification in indoor environments: Niveus use cases*

Giulio Spaggiari, Technical Director Netco

### *Conclusions*

Simona Tondelli, Vice Rector Alma Mater Studiorum University of Bologna

**Thursday 6**

**November**

**14:30 - 16:30**

Ravezzi 1 Room South  
Hall

**Resource Efficiency and  
Circular Economy**

[Click here](#)

## Measuring and Communicating Business Decarbonization Processes Through Innovative Tools

**Organized by: Comitato Tecnico Scientifico Ecomondo & Scuola Superiore Sant'Anna, ENEA, Global Compact Network Italia**

Language:: Italian

The issue of carbon footprint measurement has gained increasing importance and has spread from large corporations to small and medium-sized enterprises—especially with the emergence of so-called "Scope 3" emissions. These are now seen as essential for demonstrating a credible corporate commitment to decarbonization. More advanced approaches, such as "Scope 4," go even further by encompassing the entire value chain, covering the full life cycle of products and services placed on the market, including their end-of-life phase.

International initiatives such as the Science Based Targets (SBTi) demand detailed emissions reporting, which can be challenging to implement. Among the various measurement tools available, the life-cycle approach stands out as the most robust, offering a comprehensive view of emissions beyond just the production phase. At the same time, regulations and voluntary standards—such as EU directives and the ISO High-Level Structure—are increasingly requiring companies to integrate decarbonization into their strategic planning. Additionally, the EU has introduced strict rules governing how carbon neutrality can be communicated in the marketplace.

Following the success of its 2023 and 2024 editions, this workshop aims to examine the challenges of measuring CO<sub>2</sub>eq emissions and explore the opportunities offered by digital technologies to support decarbonization efforts.

### **Session chairs**

Marco Frey, Sant'Anna School of Advanced Studies, Interdisciplinary Center on Sustainability and Climate Change

Claudia Brunori, ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development) - Department for Sustainability of Production and Territorial Systems

### **Program**

Session: *The Evolution of National and International Initiatives on Carbon Footprint Measurement in the Context of Supply and Value Chains*

14.30-14.40 *Introduction: The Evolution of Mandatory Legislation and Voluntary Standards in Business Decarbonization Processes*

Marco Frey, Sant'Anna School of Advanced Studies

14.40-14.50 *On carbon footprint: from simplification to innovation for the clean industrial deal*  
Esther Sanye Mengual, JRC Ispra

14.50-15.00 *The Global Compact's Commitment to the Double Transition*  
Federico Magrin, UNGCNI

15.00-15.10 *Tools for measuring the carbon footprint*  
Fabio Iraldo, Scuola Superiore Sant'Anna

15.10-15.20 *Measuring Carbon Footprint with National Data: The Arcadia LCA Database*  
Caterina Rinaldi, ENEA

15.20-15.30 *TE3C: A Tool to Enhance the Decarbonization Potential of Secondary Material Use*  
Laura Cutaia, ENEA

15.30-16.00 *Session: Corporate Experiences in Managing and Communicating Carbon Footprint*

Speakers:

Gianluca Gramegna, Erg  
Fabiana Marchini, Nestlé Waters  
Dilvia Damelas, J4Energy  
Elena Gaggion, ICAM  
Simone Targetti Ferri, L'Oréal

16.00 Discussion and Closing Remarks By the Session Chairs

*Thursday 6  
November*

14:30 - 17:30

Agorà Fellini - Sites & Soil  
Restoration Area Hall C1

**Resource Efficiency and  
Circular Economy**  
[Click here](#)

Transport and Logistics between regulations, technologies, new service models and sustainability

**Organized by: Comitato Tecnico Scientifico Ecomondo & FIAP**

Language:: Italian

An event dedicated to the future of transport and logistics, focusing on regulatory evolution, technological innovation, and sustainability. The session will open with an overview of the main European regulations on freight transport, to understand the dynamics that are reshaping the regulatory framework at a continental level. This will be followed by a strategic reflection on the profound changes taking place in mobility systems, with particular attention to the ecological transition and the balance between public policies and industrial choices.

Two talk shows will fuel the discussion between companies, associations, academia, and institutional representatives: the first will focus on commercial and industrial vehicles, fuels and energy carriers, intermodal models, and service profiles; the second will delve into the impact of digitalization and artificial intelligence on fleet management, environmental data, and supplier-customer relationships. A space reserved for political dialogue is planned.

### Session Chairs

Alessandro Peron, Secretary General FIAP  
Piero Savazzi, FIAP Coordinator for European Relations and Technical/Regulatory Area

### Program

14.30 Introduction by the Session Chairs

14.40-15.20 Introductory presentations

*Current state of European transport regulations*  
Federico Solfrini, Goods Transport Manager, IRU - Brussels

*Comparative analysis of energy carrier performance*  
Giuseppe Napoli, Senior Researcher at CNR ITAE

## 15.20-16.10 **Panel talk 1: Vehicles, fuels/energy carriers, and service profiles**

Introductory question to the Representative of the Industrial Vehicles Section, UNRAE

*Round table on the technological evolution of industrial vehicles*

Participants:

Domenico Andreoli, Head of Marketing & PR, Daimler Trucks  
Marco Bonaveglia, Commercial Director Renault, Trucks Italia  
Paolo Carri, Marketing & Driving the Shift Director, ItalScania  
Sabrina Loner, eMob - Product - Homologation Director, Volvo Truck

*State of the art of charging infrastructures*

Francesco Naso, Secretary General, MOTUS-E

*Overview of fuels and environmental taxation (ETS and ETS2)*

Gianni Murano, President of UNEM

*IRU - "Mission profiles" for road transport (short, medium and long-distance)*

Federico Solfrini, Goods Transport Manager, IRU - Brussels

*Intermodal solutions for freight transport*

Curzio Boaretto, General Manager C.O.O. CargoBeamer AG

## 16.10-16.30 **Political interval**

Members of the Italian Parliament (TBD)

## 16.30-17.00 **Panel talk 2: Digitalization and Artificial Intelligence between big data and the need for constantly updated and punctual management**

Franco Viganò, Director, Strategic Channel & Country Manager Italy, Geotab

Marco Silvestrini, Sales Telematics, Tachographs & Services - VDO Italia

Discussion and conclusions by the Session Chairs

Thursday 6  
November

14:30 - 17:00

Agorà Blue Economy Hall  
B7

Water Cycle and Blue  
Economy  
[Click here](#)

Capacity building actions and interventions for the sustainable development of coastal communities

**Organized by: Comitato Tecnico Scientifico Ecomondo & FLAG/GALPA Costa dell'Emilia-Romagna, Legacoop Agroalimentare Nord Italia**

Language:: Italian

The Capacity building is a process that aims to strengthen the capacities and skills of public and private stakeholders so that they can effectively manage natural resources, promote resilience and address sustainable development challenges.

Applied to coastal communities, the process is essential to develop strategies that address local issues, such as climate change, fisheries and aquaculture management, sustainable tourism and marine ecosystem protection. Involving the European and Italian CLLD (Community Led Local Development), called GALPA (Fisheries and Aquaculture Action Groups) and included in priority 3 of the European Maritime, Fisheries and Aquaculture Fund (EMFAF 2021/2027), the experiential models and strategies activated in the field of training and awareness of local communities, in the sustainable management of fisheries and marine resources, in sustainable tourism and management of natural resources but also in integrated coastal zone management (ICZM) and also in environmental research and monitoring and in the creation of blue infrastructures where necessary, will be addressed.

The event aims to improve local skills, promote active participation, and develop practical solutions that favor the conservation of the marine environment and the prosperity of coastal communities.

## Session chair

Massimo Bellavista, Ecomondo Scientific Technical Committee for the Blue Economy, Manager of Fisheries and Aquaculture in Emilia-Romagna, Legacoop Agroalimentare

## Program

14.30 Anna Montini, Councilor for the Blue Economy, Municipality of Rimini

14.40 Elena Gaudio, Ministry of Education and Merit

14.50 Vittorio Elio Manduca, Head of the Fisheries Economy Service, Emilia-Romagna Region

Live streaming with the Motonave Bella Rimini, at the Rimini Canal Port: Hackathon Competition "BluesLinks" underway

15.15 *Development of the Blue Economy in the Northern Adriatic Cooperation between Local Action Groups Fisheries and Aquaculture in the Northern Adriatic FEAMPA 2021-2027*

Speakers:

Sergio Caselli, President of GALPA Costa dell'Emilia-Romagna

Andrea Portieri, Director of GALPA Chioggia Delta del Po

Antonio Gottardo, President of GALPA FLAG Veneziano

Paolo Marchese, Director of GALPA FVG Friuli Venezia Giulia

Vadis Paesanti, Councillor for Cooperation of GALPA Costa dell'Emilia-Romagna

15.45 *The Horizon Europe "Farclimate" Project and collaborative networks with GALPA*  
Maria Caldero, Fundamar Foundation of Vigo (ES) Live streaming with the Motonave Bella Rimini, at the Rimini Canal Port: Hackathon Competition "BluesLinks" underway

16.10 *WWF's network with fishermen to fight marine plastic pollution*  
Stefania Campogianni, Regional Project Manager WWF Mediterranean

16.20 *The world of information technology at the service of the Blue Economy*  
Luca Di Nicola, Senior Product Specialist, Infoteam

*Final Blue Talk for dialogue and discussion with the public*

Thursday 6  
November  
16:45 - 17:45

Diotallevi 2 Room South  
Hall

Research and  
Innovative Start Up  
[Click here](#)

JRC short course on Raw Materials: critical, strategic and advanced

**Organized by: Joint Research Centre - European Commission**

Language:: English

As a response to the ever-growing geopolitical uncertainty, the Commission is taking several flagship measures to boost EU competitiveness through a more secure and sustainable management of critical and strategic raw materials, by also enhancing the use of advanced materials.

Latest policy documents include the 2024 Critical Raw Materials Act and Communication on Advanced Materials for Industrial Leadership; the 2025 Clean Industrial Deal and Steel and Metal Actions Plan; the recently announced 2026 Circular Economy Act.

The successful implementation of the actions included (or foreseen) in these documents requires fulfilling knowledge needs related to a wide range of aspects: supply, demand, foresights, circularity, and environmental footprint of raw materials – among others.

Against this background, the Joint Research Centre (JRC) is at the forefront to provide EU policymakers with scientifically sound analyses, data and metrics. This also includes disseminating and scaling up successful research outcomes and reference data through the Raw Materials Information System (RMIS), the EC's reference knowledge platform on metals and minerals – developed and maintained by the JRC. Ultimately, the goal is to bring the science-to-policy dialogue forward and support the EU achieve its competitiveness, innovation and sustainability goals.

Towards this end, this session will give an overview of RMIS goals/scope, its structure and content. Specific supply chains will be looked at, such as in relation to critical, strategic and advanced materials used in e.g. mobility.

## **Program**

### ***Raw Materials Information System (RMIS): overview, functions and content***

Simone Manfredi, JRC

### ***Deep-dive and live-demo of specific RMIS sections***

Simone Manfredi, JRC

*Material-specific dimension (raw materials profiles, trade-related analyses at material level, advanced materials, etc)*

*Country-specific dimension (country profiles, trade-related analyses at country level, etc)*

### ***Towards more circular, resilient and sustainable (CRMs) value chains – focus on mobility sector***

Fabrice Mathieux, JRC

Umberto Eynard, JRC

Luca Ciacci, University of Bologna

JRC will give an overview of its recent and current activities to support Clean Industrial Deal policies with a specific focus on mobility systems and technologies (e.g. batteries, electric motors, light means of transport). It will discuss the trends, the recent achievements as well as the remaining challenges.

Contribution on steel used in vehicles

Luca Ciacci, University of Bologna

# Friday 7 November

Friday 7  
November

10:00 - 13:15

Agorà Augusto -  
Bioeconomy Area Hall D1

Agroecology and  
Bioenergy  
[Click here](#)

Ecological transition, forests and agro-industrial supply chains: the implementation of the deforestation regulation (EUDR)

**Organized by: Comitato Tecnico Scientifico Ecomondo & Confagricoltura, Fondazione AlberItalia, Cluster Italia Foresta Legno**

Language:: Italian

[> Go to the conference posters <](#)

The European Commission has recently adopted a regulation aimed at reducing the effects of so-called "embedded deforestation"; that is, deforestation caused mainly by the import of primary goods such as soy, palm oil, beef, cocoa, coffee and wood.

Therefore, with a view to safeguarding the ecological value of forest ecosystems in the countries producing these raw materials (predominantly in the tropical area), the European Union has provided in Regulation (EU) 2024/3234, which entered into force on June 29, 2023, enhanced due diligence measures that will allow zero-deforestation products to be placed on the market.

Member States will have to define, through specific decrees, the methods and tools that companies subject to the new requirements will have to apply as early as December 2025. In this context, the various agro-industrial sectors will have to rapidly develop new procedures and traceability systems that are able, on one hand, to meet the objectives indicated by the regulation and, on the other, to avoid an increase in bureaucratic burdens, given that these are very long supply chains, with consequent loss of competitiveness along the distribution chains.

In this direction, it is necessary to provide an open space for dialogue where information can be networked and the most critical aspects related to the implementation of the new procedures can be shared, to ensure the right balance between the appropriate objectives of environmental protection and climate mitigation and those of supplying primary goods for strategic supply chains for Made in Italy.

## Session Chair

Silvia Piconcelli, Confagricoltura

## Program

10.00 Welcome greetings  
Enrico Allasia, Confagricoltura

10.15-10.30 Introduction  
Marco Marchetti, Fondazione AlberItalia

10.30-10.45 *New requirements under Regulation (EU) 2023/1115 on deforestation and forest degradation (EUDR)*  
Emanuele Pitto, European Commission

10.45-11.00 *Competitiveness and sustainability of the forestry sector*  
Emilio Gatto, Difor

11.00-11.15 *The control system*  
Salvatore Alberino, ICQRF

11.15-12.00 **Case studies and Call for papers**

Moderator:  
Silvia Piconcelli, Confagricoltura

Case studies

Trusty - Alessandro Chelli

Call for Papers

*Beyond wood: ecosystem functions and services to enhance the supply chain and reduce environmental impacts*

Elena Maestri, CIDEA University of Parma

*An operational protocol for collecting and sharing data on wood biomass flows in the Po Valley: tools for ecological transition in agroforestry supply chains*

Domenico Vito, Lombardy Foundation for the Environment

*An Integrated Perspective on Territorial Vulnerability in the Context of the EU Zero Deforestation Regulation*

Manolo Zocco, UNISI

12.00-13.00 Round Table

*How to achieve the new requirements? Supply chains in comparison*

Introduction and moderation

Alessandra Stefani, Cluster Italia Foresta Legno

Speakers:

Pietro Oieni, Difor III

Claudio Feltrin, FederlegnoArredo

Mauro Fontana, Italian Union for Sustainable Palm Oil

Carlo Siciliani, Uniceb

Enrico Zavaglia, Trading Director of Cereal docks

13.00-13.15 Conclusions

Davide Matteo Pettenella, Unipd

*Friday 7  
November*

10:00 - 17:30

Agorà Blue Economy Hall  
B7

**Education and  
Communication**

[Click here](#)

Blue Skills & Jobs: New Professional Profiles and New Skills for Sustainable Blue Growth

**Organized by: Comitato Tecnico Scientifico Ecomondo & Legacoop Agroalimentare Nord Italia, Demetra Formazione in collaborazione con MARE Cooperative, Delta 2000/ GALPA Costa dell'Emilia-Romagna**

Language:: English

Instant translations:: Italian

The topic of "Blue Skills & Jobs" is highly topical and central to European strategies, especially in light of environmental challenges and emerging employment opportunities in sectors related to the sea and water resources. Investing in blue skills means not only creating qualified jobs for young people but also contributing to the protection of our blue planet. The Blue Economy is an opportunity to combine development, innovation, and sustainability, and it is essential that young people play a leading role. Adopting a sustainable blue growth approach not only requires a transformation of economic models but also investment in technical education and vocational training systems to provide concrete responses to the demand for a highly specialized and well-prepared workforce to address the challenges of managing and conserving oceans and marine resources. In this context, education, vocational training, scientific research, and technological innovation play a crucial role, as does collaboration between governments, businesses, and international organizations to ensure the responsible and sustainable development of marine resources. An entire, intense day of work will be dedicated to these issues, highlighting critical issues but also illustrating proposals, recommendations, best practices, and innovations. A special afternoon session will be dedicated entirely to young people, who will be the true protagonists, presenting their ideas and projects in the sustainable blue economy.

### **Session Chair**

Massimo Bellavista, Ecomondo Scientific Technical Committee for the Blue Economy, Head of Training and Safety for Workers on Board at Legacoop Agroalimentare

### **Morning Session Program**

Opening and livestream with Motonave Bella Rimini at the Rimini Canal Port:  
[Hackathon Competition "BluesLinks" in progress](#)

10.30 Anna Montini, Councilor for the Blue Economy, Municipality of Rimini

10.40 Giulia Carboni, Programme Coordination Manager for Sustainable Blue Economy at European Climate, Infrastructure and Environment Executive Agency (CINEA), European Commission

10.50 Elena Gaudio, Ministry of Education and Merit

11.00 Alessandro Pititto, Director and Head of International Area, COGEA, bip Group

11.10 Frigate Captain (CP) Ottavio Cilio, Commander of the Rimini Port Authority

11.20 *The BOUTCAR Project: Presentation of new professional profiles*  
Laura Zambrini, Manager of Demetra Formazione

11.40 *Experiences and best practices in Galicia (ES)*  
María Caldeiro, FUNDAMAR

11.50 *"Blueslinks: Blue Economy New Skills" project*  
Angela Nazzaruolo, Delta 2000

Live streaming with Motonave Bella Rimini at the Rimini Canal Port:  
[Hackathon Competition "BluesLinks" progress](#)

12.15 *MARE Cooperative: Innovation and development of aquaculture through learning processes and blue skills*  
Andrea Gugnali, Blue Project Manager, Cooperativa MARE

*Blue talk for dialogue and discussion with the public at the end of the morning session*

### **Afternoon session 14.30-17.30**

Moderator:

Massimo Bellavista, Ecomondo Scientific Technical Committee for the Blue Economy, Head of Training and Safety for On-Board Workers at Legacoop Agroalimentare

### **Young Generation: Dissemination Day**

14.30 Introduction by the moderator

#### **14.40 *Presentations by representatives of the schools involved in the BluesLinks project and presentations of the projects implemented in the context of the Blue Economy:***

Istituto Vocazionale di Stato Versari Macrelli, Cesena (IT)

Antun Vrančić High School, Sibenik (HR)

Liceo Scientifico Cosimo De Giorgi, Lecce (IT)

Istituto Nautico di Ortona CH (IT)

Pomorsko-tehnička škola / Nautical and Technical School of Dubrovnik (HR)

Istituto Tecnico Industriale Nullo Baldini, Ravenna (IT)

Istituto Tecnico Superiore Mo.st di Ortona CH (IT)

Agricultural, Food and Veterinary School Stanko Ožanić, Zadar (HR)

Grazia Deledda Technical and Economic Institute, Lecce (IT)

#### **Young Generation: Dissemination Day Conclusions**

Professor Elena Gaudio, Ministry of Education and Merit

[Hackathon Competition "BluesLinks" Project \(IT/HR EU Programme\)](#)

16.30 Presentation of the activities carried out

16.45 Presentation of the video pitches

#### **17.15 Conclusions and announcement of the winners by the Evaluation Committee**

Evaluation Committee Composition

Vittorio Superbi, University of Ferrara (IT) - LP DELTA 2000,

Dino Cataldo Pierri, University of Bari (IT) - Polo Alto Adriatico

Alberto Rebonato and Filippo Menin (IT) - Confcooperative Veneto

Nicola Scapicchio, Business Designer, Innovation Manager, Temporary Manager, Business Consultant and Team Facilitator, representing Flag Costa Trabocchi (IT)

Alberto Basset, Professor of Ecology at the University of Salento (IT)

Ivona Jadrić, Director of ARGONAUTA, Association for Environmental Protection and Territorial Development of the Island of Murter (HR)

Valentina Knežević, representing Zadra Nova, a development agency in Zadra (HR)

*Friday 7  
November  
10:00 - 13:00*

Neri 1 Room South Hall

**Policies and Regulatory  
Frameworks**

[Click here](#)

The End-of-Life Vehicles regulation: a challenge for the auto end-of-life sector

**Organized by: Comitato Tecnico Scientifico Ecomondo & ASSOAMBIENTE**

Language:: Italian

The vehicle dismantling sector continues to experience a period of great change due to the now imminent approval of the European Commission's proposed End-of-Life Vehicles Regulation, which will bring new objectives and new fulfillments for all players in the ELV supply chain. The objective of the conference is to explore and illustrate the changes to the obligations of the supply chain players brought about by the aforementioned legislation and discuss them with all stakeholders in the change.

### Session Chair

Silvia Navach, Assoambiente

### Program

Introduction

Paolo Barberi, UNICIRCULAR President

*The point on the EPR management in the End-of-Life Vehicle sector*

Luca Campadello, ERION

*Speech by*

Stefano Cavedagna, Parlamento Europeo

*Round table*

Anselmo Calò, ADA (Association of Automobile Wreckers)

Ruggiero Delvecchio, ADQ (National Association of Quality Car Wreckers)

Stefano Leoni, AIRA (Industrial Association of Car Recyclers)

Luca De Vita, ANFIA (Italian Association of the Automotive Industry)

Cinzia Vezzosi, ASSOFERMET (National association of recycling of ferrous and nonferrous metals)

Alfonso Gifuni, CAR (Confederation of car wreckers)

Antonio Cernicchiaro, UNRAE (National Union of Foreign Car Representatives)

Discussion and conclusions

Silvia Navach, Assoambiente

Friday 7  
November

10:00 - 13:30

Agorà Tiberio - Water  
Cycle Area Hall D8

Water Cycle and Blue  
Economy  
[Click here](#)

PFAS and emerging pollutants in the urban water cycle: detection and removal, health and risk management

**Organized by: Comitato Tecnico Scientifico Ecomondo & Istituto Superiore di Sanità, IRSA-CNR, Utilitalia**

Language:: Italian

> Go to the conference posters <

Per- and polyfluoroalkyl substances (PFAS) and other emerging pollutants have become a significant issue in urban water management due to their persistence, toxicity, and potential health risks. These synthetic chemicals, widely used in industrial applications and consumer products, have been detected in drinking water, wastewater, and natural water bodies, raising concerns about their long-term impact on human health and ecosystems.

This workshop explores the detection, removal strategies, and risk management of PFAS and emerging pollutants in the urban water cycle. It analyzes their sources, pathways, and accumulation in water systems, as well as the effectiveness of advanced treatment technologies such as adsorption, oxidation, and membrane filtration. Additionally, the workshop examines regulatory frameworks and health and environmental risk assessments to guide mitigation strategies and ensure water safety. Addressing these contaminants is crucial for safeguarding public health and promoting sustainable practices in water resource and service management.

### **Session Chairs**

Luca Lucentini, Ecomondo STC

Alessandro Bratti, Secretary General, Ecomondo STC and Po River District Basin Authority

Tania Tellini, UTILITALIA

### **Program**

Introduction by the Session Chairs

Keynote:

*Horizon2020 PROMISCES - Preventing Recalcitrant Organic Mobile Industrial chemicals for Circular Economy in the Soil-sediment-water system: final results*

Alessandro Frugis, Marco Lazzazzara - ACEA

Maria Grazia Asci, SIMAM Spa

Massimiliano Sgroi, Ali Hydar, Marche Polytechnic University

*PFAS: Eternal pollutants - Practical methodological approach to PFAS in manufacturing environments*

Marco Scarrone, Head of Environment & Safety Advisory - EDISON NEXT

### **Speeches selected from Call for Papers**

*MP sampling according to the criteria introduced by the Delegated Decision (EU) 2024/1441 (March 11.2024). Development, implementation and validation of a programmable sampling system*

Valentina Gioia, Alessandro Frugis, Simone Leoni, Mario Castellani - Acea Infrastructure;

Stefano Battistini (OPUS Automazione)

*PFAS pesticides monitoring in waters*

E. Pace, G. Maschio, D. Esposito - Italian Institute for Environmental Protection and Research (ISPRA)

*Analytical issues in PFAS determination in water: experimental results obtained from UNICHIM PTPs organized in the period 2022 - 2025*

Maurizio Bettinelli, Sandro Spezia, Claudio Bettinelli - UNICHIM

*Determination of PFAS concentration in activated carbon*

DESOTEC & VITO

*PFAS in sewage sludge - thermal degradation: state of the art and experimental campaigns*

Marco Alberio, Lucas Preatoni - TBF + Partner AG

*Monitoring and fate of emerging contaminants in sewage sludge: evidence from three plants with different sludge lines*

Cecchini Giancarlo, Frugis Alessandro, Valentina Gioia, Simone Leoni - Acea Infrastructure

SpA; Spizzirri Massimo, Acea Ato2

*Innovation and Safety: Gruppo CAP's plan for PFAS control*

Gloria Salinetti, Water Director of Gruppo CAP

*Gestione dei PFAS in Veneto: reattività, cooperazione e investimenti*  
Massimo Cornaviera, Technical Director VIVERACQUA

*Tackling PFAS at the source: results of Iride Acque's EMER process*  
Francesco Capoti, COO, Iride Acque

*Eliminating PFAS and other organic micropollutants from sewage sludge in a climate and energy positive pyrolysis process*  
Christian Wieth, AquaGreen ApS, Denmark

*Pilot Demonstration of SAFF for PFAS Removal at Marazzato Group under LR Piemonte 25/2021*  
Eleonora Longo, Alice Zenone - Azzurra s.r.l.; Jacopo Giustina, Marazzato Soluzioni Ambientali; Francesco Dondero, Davide Rotondo - Department of Science and Technological Innovation (DISIT), Università del Piemonte Orientale "Amedeo Avogadro" Alessandria; Chadi Saliba, Envytech Solution

*Insights on the fate and removal of microplastics and microparticles in wastewater treatment plants*  
Benedetta Pagliaccia, Department of Civil and Environmental Engineering, University of Florence; Miriam Ascolese, Department of Experimental and Clinical Medicine, University of Florence; Claudio Lubello, Department of Civil and Environmental Engineering, University of Florence; Stefano Dugheri, Link Campus University; Simone Caffaz, Publiacqua SpA; Donatella Fibbi, GIDA SpA; Riccardo Gori, Department of Civil and Environmental Engineering, University of Florence

*HERO4PFAS project: eliminating per- and poly-fluoroalkylsubstances with photogenerated hydrated electrons in homogeneous and heterogeneous systems*  
Iván Sciscenko, Claudio Minero, Marco Minella, Department of chemistry, University of Turin

*Emerging micropollutants: new horizons from the Lombardy context*  
Giovanni Bergna (1, 2), Luca Penserini (1,3), Gianni Tartari (1) - 1. Lombardy Energy Cleantech Cluster - LE2C; 2. LarianaDepur; 3. Politecnico di Milano, Department of Civil and Environmental Engineering (DICA) – Environmental Section

### **Poster Session**

**P1** - *PFAS: discharge limits into public sewers and surface water bodies established by art. 74 of Piedmont Region Law 25/2021. From the criticalities emerged in the application to the first strategies identified by CmTo in synergy with stakeholders*

Raffaella Durante, Valentina Pia Ciuffreda, Elena Casalis Cavalchini - Department of Environment and Sustainable Development of the Metropolitan City of Turin

**P2** - *The importance of dynamic PTPs for evaluating the performance of laboratory evaluation tests using natural matrices – PFAS*

Claudio Carrer<sup>1</sup>, Claudio Carbone<sup>2</sup>, Loretta Gallochio<sup>1</sup>, Maria Teresa Palermo<sup>1</sup>, Alessandro Battaglia<sup>1</sup> and Ivano Battaglia<sup>1</sup> - 1 Lab Service Analytica srl InterCinD B.U.; 2 Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA)

**P3** - *Towards responsible management of stormwater runoff with the OSMORIA® aquatextiles*  
Marzia Leonardi, Solmax France SAS

**P4** - *Use of Plasmapheresis and Plasma Exchange for PFAS elimination*

Adriano Pistilli Waste Management Technical Manager - Freelance professional

**P5** - *Pharmacological treatments for PFAS elimination*

Adriano Pistilli Waste Management Technical Manager - Freelance professional

**P6** - *Use of activated carbon for PFAS elimination*

Adriano Pistilli Waste Management Technical Manager - Freelance professional

**P7** - *Thermal degradation of PFAS in concentrated leachate through flame treatment*

N. Zanetti (a), M. Della Zassa (a), U. Rizzato (b), M. Zerlottin (b), D. Beltrame (b), C. Stimamiglio (b), P. Canu (a, c) a) K-INN Tech Srl, Padua b) Acque del Chiampo SpA, Arzignano (VI) c) Department of Industrial Engineering, University of Padua

**P8** - *Thermal Reactivation: A Sustainable Solution for PFAS Removal from Water*

Rachel Houssière

Discussion and conclusions by the Session Chairs

Friday 7  
November

10:00 - 13:00

Girasole Room Hall B7

International  
Cooperation and  
Partnerships with  
Mediterranean and  
Africa

[Click here](#)

Young Waves for Change: Mediterranean Youth Driving the Mission Ocean and Waters

**Organized by: BlueMissionMed CSA, RHE-MEDIation, European Commission, CNR-DSSTTA & FVA**

Language:: Italian

This interactive event brings together students and educators from across the Mediterranean who have been actively engaged in environmental education and restoration, to share their experiences and build new inspiration around the EU Mission Restore Our Ocean and Waters by 2030. The event will highlight success stories from national and regional initiatives such as Plastic Pirates - Go Europe!, the Network of Blue Schools, and educational pilots from the RHE-MEDIation project.

A shared moment of reflection, dialogue and creativity where students, researchers, and decision-makers co-create the future of the Mediterranean.

Moreover, during the event the Ceremony Award of the Second Edition of the Society4Med Award will take place!

### Session Chairs

Gloria Consoli, CNR - BlueMissionMed

Elisa Acciaro, RINA - RHE-MEDIation

### Program

#### First Session

Moderators:

Gloria Consoli, CNR - BlueMissionMed

Elisa Acciaro, RINA - RHE-MEDIation

10.00 Welcome and opening Remarks

Maria Cristina Pedicchio, Member of the Mission Board Ocean and Waters, Presidente di APRE

10.10 *Inspiring Actions: Education, Science & Community*

Susanna Albertini, Selenia Marinelli, Valentina Vavassori - FVA, BlueMissionMed. Our Blue Treasure - Discovering the Mediterranean through art, science and storytelling

Gregorio Sgrigna, Phytotech srl, CNR. Environmental education projects and R&I activity

10.30 *Mission Lighthouse Initiative with presentation from Secondary schools' representatives*

Presented and moderated by Elisa Acciaro, RINA - RHE-MEDIation

Students from ITT Pacinotti di Taranto - 5A Biotecnologie Ambientali

10.45 *Little Big Scientists - Secondary schools' delegates presents Citizen Science National Initiative and Plastic Pirates - Go Europe!*

Presented and moderated by Gloria Consoli, CNR - BlueMissionMed

Students from I.T.T. "Leonardo Da Vinci" of Viterbo - 5ABS e 5A Biotecnologie Sanitarie

11.15 *Clousure of First Session & Youth Call to Action*

Group photo and delivery of symbolic "Youth Blue Commitment" to the Mission Team

## Second Session

Moderator:

Elisa Conti, CNR - BlueMissionMed

11.40 Welcome by the Chair

*Opening remarks - Why the Mission needs youth?*

Elisabetta Balzi, Active Senior, DG Research and Innovation, European Commission

11.50 *Inspiring Actions: Education, Science & Community*

Presentations by:

Fantina Madricardo, CNR ISMAR - Biodiversity Gateway Venice

Maria Giovanna Parisi, UniPA - Biodiversity Gateway Palermo

12.10 *Mission Lighthouse Initiative with presentation from Secondary schools' representatives*

Presented and moderated by Gloria Consoli, CNR - BlueMissionMed

Students from IIS Santoni of Pisa - 4F e 5G

12.35 *Youth Call to Action*

*Group photo and delivery of symbolic "Youth Blue Commitment" to the Mission Team*

12.40 *The award ceremony of the Second Edition of the Society4Med Award*

Moderator:

Susanna Albertini, FVA - BlueMissionMed

*Presentation of the winners and group photo*

13.00 Clousure of Second Session

*Friday 7  
November*

10:30 - 12:30

Diotallevi 2 Room South  
Hall

**International  
Cooperation and  
Partnerships with  
Mediterranean and  
Africa**

[Click here](#)

Strategic EU R&I Projects for the Green Transition in the Mediterranean and Africa

**Organized by: Comitato Tecnico Scientifico Ecomondo & APRE (Agenzia per la Promozione della Ricerca Europea)**

Language:: Italian

Instant translations:: English

The European Union is investing significantly in Research and Innovation (R&I) to foster sustainable development, climate resilience, and inclusive growth in the Mediterranean and African regions. These efforts are part of broader geopolitical and neighborhood strategies, and are implemented through a variety of instruments and partnerships, including Horizon Europe, PRIMA, EDCTP, and the EU-AU R&I Partnership.

This session will highlight the strategic vision behind these initiatives, the tools available to support cooperation, and concrete examples of successful projects involving Italian public and private actors. By showcasing impactful results and best practices, the event aims to demonstrate how R&I can serve as a bridge between Europe, Africa, and the Mediterranean, and how these efforts contribute to the implementation of the Mattei Plan — Italy's strategic framework for cooperation with Africa and the wider Mediterranean.

The session will feature contributions from the European Commission, key programme representatives, and project leaders, and will conclude with a forward-looking discussion on how to maximise the impact of R&I collaboration in the region.

### **Session Chairs**

Serena Borgna, APRE  
Michele Mazzola, Italian Ministry of University and Research

### **Program**

10.30 Introduction by the Chairs

10.35 *EU strategies for R&I collaboration in Africa and Mediterranean areas*

Vincenzo Lorusso, European Commission  
Alessandro Calabrò, European Commission

11.05 *EU instrument for R&I collaboration with African and Mediterranean partners*

Serena Borgna, APRE  
Angelo Riccaboni, PRIMA

11.35 *Showcasing Impact: Experiences and Success Stories from EU R&I Cooperation in Africa and the Mediterranean*

Margherita Trestini, Apodissi  
Fausto Giunchiglia, Università degli Studi di Trento  
Maroun El Moujabber, CIHEAM BARI  
Carlo Cecchetti, RES4AFRICA  
Representative of PRIMA (TBD)

12.20 *The Mattei Plan in Action: Enabling Success Stories through Education and Bilateral Partnerships in Africa and the Mediterranean*

Michele Mazzola, Italian Ministry of University and Research

12.25 Discussion and closure by the Chairs