

**International Conference on the
Water-Energy-Food Nexus for a low-carbon
Economy in Europe & beyond
*Building Resilience to Global Challenges***

*IHECS Building (ex BluePoint Building)
Blvd Auguste Reyers 80, 1030 Brussels, Belgium
04 June 2025*



Organized by

[COST Action NexusNet | CA20138](#)

In collaboration with

[Water Europe](#)

[University of Thessaly](#)

[Aristotle University of Thessaloniki](#)

With the Support of

[ONE PLANET THESSALY](#)

[Resilient Futures by ENRICH GLOBAL](#)

For online participation, please register [here](#).

Registration

09:00 – 09:30

01 Welcome & Opening Remarks

09:30 – 10:00

- Chrysi Laspidou, NexusNet Chair
- Durk Krol, Executive Director, Water Europe

02 Roundtable Discussion: Achievements, Challenges and Lessons Learned

10:00 – 11:00

Moderator

- Carine Hinchcliffe, CJH Multisourcing

Panelists

- Chrysi Laspidou, NexusNet Chair
- Giannis Adamos, NexusNet Grant Holder Manager & Founder of Nexus EXCELLENTIA Mentoring Program
- Svetlana Klessova, GAC & ENRICH GLOBAL
- Maria Vrachioli, Technical University of Munich
- Serena Caucci, Technische Universität Dresden
- Tamara Radjenovic, University of Nis
- Luisa Prista, Water Europe

Coffee Break – Networking

11:00 – 11:30

03 Session I: Modelling the Nexus

- 11:30 – 12:20 **Moderator**
• Nikolaos Mellios, University of Thessaly
- A Quantitative Framework for Assessing the WEF Nexus: Indicator Harmonization and Policy Integration for Climate Resilience in the EU**
- A17 11:30 – 11:40 Mohammed Assaf, Abdelrahman Habash, Vladimir Kitanovski, Nikolaos Mellios, Chrysaida-Aliki Papadopoulou, Milena Rajić, Virginia Rosa Coletta, **Maria Vrachioli**
- A Risk-Informed Modeling Framework of the Water-Energy-Food Nexus for Water Resources Management**
- A15 11:40 – 11:50 **Abbas Roozbahani**, Fatemeh Bayat, Mehdy Hashemy Shahdany
- A Nexus Approach to Assessing Anthropogenic Impact: Integrating Soil Invertebrate Diversity and Space Syntax in Urban Parks**
- A22 11:50 – 12:00 **Mirela Sertić Perić**, Marija Dadić, Tamara Zaninović
- Optimizing Water-Energy-Food-Ecosystem Trade-offs in the Mediterranean: A Multi-level Approach**
- A4 12:00 – 12:10 **Eirini Afentouli**, Ebun Akinsete, Lydia Stergiopoulou, Theofanis Zacharatos, Phoebe Koundouri (**online**)
- Embedding Marine Ecosystem Services in the WEF Nexus: A Mediterranean Framework for Integrated Resource Management**
- A11 12:10 – 12:20 **Jerome El Jeitany**, Alexandra Spyropoulou, Tommaso Pacetti, Giannis Adamos, Chrysi Laspidou, Enrica Caporali (**online**)

Group Photo

12:20 – 12:30

Lunch Break

12:30 – 13:30

04 Session II: Applications of the Nexus in Real World

	13:30 – 14:30	Moderator Dimitris Kofinas, University of Thessaly
		Understanding Nexus Interlinkages in Extreme Events: A Task Force Initiative Towards Resilience Dimitris Kofinas, Cevza Melek Kazezyilmaz-Alhan , Giannis Adamos, Serena Caucci, Tamara Radjenovic, Dejana Đorđević, Tina Dasic, Nina Nikolova, Dejan Vasovic, Dijana Likar, Messaoud Lazreg, Edyta Hewelke, Jairo Guzman, Michael Nones, Sarah Milliken, Milena Rajic, Alexandra Spyropoulou, Müge Akın, Kemal Koca, Mirela Sertić Perić, Kaan Ilker Demirezen, Georgios Alexandros Chatzistefanou, Marco Falda, Hai-Ying Liu, Carlos Felipe Marin Rivera, Argyrios Balatsoukas, Monika Suskevics, Julieta Domínguez-Soberanes, Taiwo Temitope Bamgboye, Violeta Vasilić, Rocío Pineda-Martos, Stefania Munaretto, Chrysi Laspidou
A13	13:30 – 13:40	
		WEFE Nexus Interlinkages of Tsunami-Type Natural Hazards: Case Studies in the Aegean and Marmara Sea, and Baffin Bay Cevza Melek Kazezyilmaz-Alhan, Kaan Ilker Demirezen , Dejana Đorđević, Dimitris Kofinas, Giannis Adamos, Serena Caucci, Tamara Radjenovic, Stefania Munaretto, Floor Brower, Chrysi Laspidou (online)
A27	13:40 – 13:50	
		Integrating Transportation and Disaster Risk Management to the WEFE Nexus through a Systems Thinking Approach Argyrios Balatsoukas , Giannis Adamos
A12	13:50 – 14:00	
		Integrating Circular Economy and the WEF Nexus: A Structured Review of Concepts, Synergies, and Gaps Hai-Ying Liu , Janez Sušnik, Catarina Roseta-Palma, Hermine Mitter, Jerome el Jeitany, Malgorzata Blichaska, Mirela Sertic Peric, Sarah Milliken, Stefania Munaretto, Floor Brouwer, Chrysi Laspidou
A30	14:00 – 14:10	
		The role of “nature” in the Water-Energy-Food Nexus: insights from an interdisciplinary process of knowledge creation Enrico Lucca, Dimitris Kofinas , Tamara Avellán, Janina Kleemann, Caro E. Mooren, Malgorzata Blicharska, Claudia Teutschbein, Anna Sperotto, Janez Sušnik, Sarah Milliken, Marianela Fader, Dejana Đorđević, Tina Dašić, Violeta Vasilić, Bamgboye Taiwo, Aziza Baubekova, Rocío Pineda-Martos, Alexandra Spyropoulou, Gösta F.M. Baganz, Jerome el Jeitany, Hasan Volkan Oral, Mohammad Merheb, Giulio Castelli, Alessandro Pagano, Beatrice Sambo, Monika Suškevičs, Mona Arnold, Tamara Radenović, Alexander Psomas, Sara Masia, Isabelle La Jeunesse, Henry Amorocho-Daza, Elena Bresci, Stefania Munaretto, Floor Brouwer, Chrysi Laspidou
A25	14:10 – 14:20	
		A systematic mapping approach to represent and analyze the Water-Energy-Food Nexus interlinkages for sustainable planning Alexandra Spyropoulou , Dimitris Kofinas, Christina-Maria Androna, Ioanna Mandilara, Eleni Fotopoulou, Anastasios Zafeiropoulos, Chrysi Laspidou and Symeon Papavassiliou (online)
A9	14:20 – 14:30	

05 Session III: Policy Implications of the Nexus in Europe and beyond

- 14:30 – 15:30 **Moderator**
- Sarah Milliken, University of Greenwich
- Bridging Policy and Practice in WEF+ Nexus Projects in Europe: Towards More Effective Impact Indicators**
- A21 14:30 – 14:40 Mirela Sertić Perić, Hai-Ying Liu, **Edyta Hewelke**, Barbora Duží, Vesna Gulin Beljak, Ivar Zekker, Janez Sušnik, Floor Brouwer, Chrysi Laspidou
- Integrating Intersections of Climate Resilience and School Education for Holistic Sustainable Development: Insights from Bangladesh**
- A32 14:40 – 14:50 **Shuddha Srimoyee Das**, Nidhi Nagabhatla
- Enhancing Policy Coherence in the WEF Nexus: Opportunities for Integrated Governance in the Republic of Croatia**
- A5 14:50 – 15:00 Dejan Vasović, **Srećko Goić**, Sarah Milliken
- Nexus approach and Sustainable Tourism in Europe: challenges and opportunities under high environmental pressure contexts**
- A37 15:00 – 15:10 **Juliana Gomes Chediek**
- Quantifying water sustainability by integrating the WEF Nexus: implications for the EU Taxonomy**
- A2 15:10 – 15:20 **Isha Savani**, Elizabeth Quiroga Jordan, Sarah Milliken (**online**)
- Incorporating Geopolitical Vulnerabilities into Energy Transition Planning for Enhanced Resilience: A Geopolitical Vulnerability Index for EU Member States**
- A34 15:20 – 15:30 **Yoana Kisyo**, Cristina Madrid López (**online**)

06 Keynote Addresses

- | | |
|---------------|---|
| 15:30 – 16:10 | Moderator <ul style="list-style-type: none">• Giannis Adamos, Aristotle University of Thessaloniki |
| 15:30 – 15:50 | Nexus Thinking and Nexus Implementation in EU-funded R&I projects <ul style="list-style-type: none">• Giulio Pattanaro, European Research Executive Agency |
| 15:50 – 16:10 | Advancing Nexus Thinking: Innovations in Integrated Systems Modeling with JUNIPER <p>Alexandra E. Ioannou, Dorothea Kasiteropoulou, Konstantinos Ziliaskopoulos, and Chrysi Laspidou</p> <ul style="list-style-type: none">• Chrysi Laspidou, University of Thessaly |

07 The NexusNet Platform

- | | |
|---------------|---|
| 16:10 – 16:20 | <ul style="list-style-type: none">• Alexandra-Eleni Spyropoulou, University of Thessaly |
|---------------|---|

Break

- | |
|---------------|
| 16:20 – 16:30 |
|---------------|

08 Session IV: Urban Resilience and Circular Economy (Online Session)

16:30 – 17:20 **Moderator**
• Catarina Roseta Palma, ISCTE

A10 16:30 – 16:40 **Systemic Approaches to Low Carbon Food Production: A Symbiosis-Based Assessment**

Emel Yontar

A29 16:40 – 16:50 **Untangling water-energy-food systems at local level – The case of CitySelfy project**

Luís Pereira Dias, Júlia Seixas, Mónica Truninger, Ana M. Vales, João Graça, Luísa Schmidt, Rosário Oliveira

A24 16:50 – 17:00 **Examining the Water-Energy-Food nexus at the building scale, using Environmental Performance Assessment Methods**

Bahar Feizollahbeigi, Ricardo Mateus, Julia Seixas

A14 17:00 – 17:10 **Evaluating Circular Water Economy Models at the Watershed Scale: A Carbon Emissions-Based Framework within the Water-Energy-Food-Ecosystem Nexus**

Bilge İrem Yapan, Emre Alp

A35 17:10 – 17:20 **A Performance-Based Evaluation Model of the WEF E Nexus in the Public Utilities Sector: Advancing Circular and Resilient Cities**

Žarko Vranjanac, Dejan Vasović

Break

17:20 – 17:30

09 Session V: Cross-thematic poster session

- A1 Environmental Protection as a shared Responsibility: Promoting Public Awareness for Sustainable Development in Tajikistan**
Dalerjon Hojiboev, Zafar Razykov
- A19 Enhancing nutrient recovery in wastewater treatment?**
Mona Arnold
- A20 Sustainable use of fish by-products**
Inka-Mari Sarvola, Katri Behm, Mona Arnold, Eveliina Hylkilä
- A26 Integrating climate smart agriculture practices. An assessment of Uganda's lower secondary agriculture competence-based curriculum**
Patience Nimushaba
- A3 Food and Feed Safety Implications from Climate Change in Albania, the Mycotoxin Contamination**
Marjeta Daja, Griserda Topi, Dritan Topi
- A8 Strengthening the WEF Nexus through Sustainable Manufacturing: Evidence from Circular Economy Reengineering Integration**
Milena Rajić, Marko Mančić, Milena Mančić
- A36 One Health in Climate Change Adaptation: Scoping Interlinkages with the Water–Energy–Food–Ecosystems Nexus**
Dimitris Kofinas, Charalambos Billinis, Chrysi Laspidou
- A6 Assessing the effect of forest fires on forest cover using Remote Sensing Technology: A case study of Aberdare Forest**
Anne Osio, Oscar Juma
- A7 Water-Food-Energy Security Nexus Approach**
PF Magagula, A. Nauditt
- A16 Energetic recovery of waste in Czechia: current trends and challenges**
Barbora Duží, Dr. Petr Dvořák
- A18 WEF Nexus Implications of Geothermal Resources in the Konya Plain Project, Türkiye**
Rabia Çolak, Peri Bozkurt, Cevza Melek Kazezyılmaz-Alhan
- A28 Spain's Energy Transition: Local Benefits, Global Burdens?**
Miquel Sierra Montoya, Cristina Madrid López
- A33 Advancing Interdisciplinary Capacity through the Nexus EXCELLENTIA Mentoring Programme**
Giannis Adamos, Tamara Radenović
- A31 SMART-WaterDomain: Impact-Oriented Framework for Enhancing Water Reuse in Complex Systems**
Serena Caucci; T. Bartosz Kalinowski; Kensuke Fukushi; Katarzyna Pawęska, Isabella Georgiou; Zeynep Ozkul, Piotr Sosnowski; Petr Skalák, Takashi Hashimoto; Petr Štěpánek; Wiesław Fiałkiewicz; Aleksandra Bawiec; Edeltraud Guenther.; Danguolė Montvydienė; Agata Rudnicka-Reichel; Peter Krebs; and Jonathan C. Morris

10 Call for Action: NexusNet Manifesto

Looking Forward: Future Pathways and Collaboration in the Nexus

17:30 – 18:15

Moderators

- Chrysi Laspidou, NexusNet Chair
- Giannis Adamos, NexusNet Grant Holder Manager

11 Closing Remarks

18:15 – 18:30

- Chrysi Laspidou, NexusNet Chair

Scientific Committee

Prof. Chrysi Laspidou | University of Thessaly, Greece **(Chair)**

Asst. Prof. Giannis Adamos | Aristotle University of Thessaloniki, Greece **(Co-Chair)**

Dr. Floor Brouwer | UNU-FLORES, Germany

Dr. Serena Caucci | Technische Universität Dresden, Germany

Ms. Juliana Chediek | Universidade de Coimbra, Portugal

Mr. Sukru Esin | MetaMeta Anatolia, Türkiye

Prof. Cevza Melek Kazezyilmaz Alhan | Istanbul Universitesi, Türkiye

Dr. Svetlana Klessova | GAC Group, France

Dr. Dimitris Kofinas | University of Thessaly, Greece

Dr. Nikolaos Mellios | University of Thessaly, Greece

Dr. Sarah Milliken | University of Greenwich, United Kingdom

Dr. Stefania Munaretto | KWR Water Research Institute, The Netherlands

Ms. Luisa Prista | Water Europe, Belgium

Asst. Prof. Tamara Rađenović | University of Niš, Serbia

Ms. Naomi Timmer | H₂O People, The Netherlands

Dr. Alexandra-Eleni Spyropoulou | University of Thessaly, Greece

Dr. Maria Vrachioli | Technical University of Munich, Germany

Organizing Committee

Asst. Prof. Tamara Rađenović | University of Niš, Serbia **(Chair)**

Mr. Durk Krol | Water Europe, Belgium **(Co-Chair)**

Dr. Alexandra-Eleni Spyropoulou | University of Thessaly, Greece

Mr. Argyrios Balatsoukas | University of Thessaly & Aristotle University of Thessaloniki, Greece