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Institute of  
Environmental Science  
and Technology  
ICTA-UAB

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# Annual Report 2024

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**ICTA-UAB** Institut de  
Ciència i Tecnologia  
Ambientals

**UAB** Universitat  
Autònoma  
de Barcelona



EXCELENCIA  
MARÍA  
DE MAEZTU

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COORDINATION  
Secretary of ICTA-UAB  
Laura Talens Peiró

EDITION  
Research support unit  
Silvia Martínez Sinibaldi

ICTA-UAB Communication staff  
Isabel Lopera Martínez  
Ana Cañizares

DESIGN  
pfp, disseny

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Pixabay

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# VISION AND MISSION

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## VISION

To empower society with science to address global socio-environmental challenges ●

## MISSION

ICTA-UAB is a transdisciplinary science institute that develops vital and strategic knowledge toward strong sustainability ● Committed to impactful science, we train researchers and practitioners, and partner with diverse interest groups to strengthen ecosystems health and foster socio-environmental transformation and innovation ●



ISABEL PONT  
Director

*September 2022  
Present*

“I take immense pride in leading this pioneering research center, committed to tackling the critical challenges of our era ● Our multidisciplinary team, bringing together expertise from the natural, engineering, and social sciences, works every day to create innovative, impactful, and equitable solutions ● We aim to provide, together, “Brave science for a changing world” ●

Thank you for supporting our work and for joining us in advancing our mission!” ●

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# ABOUT US

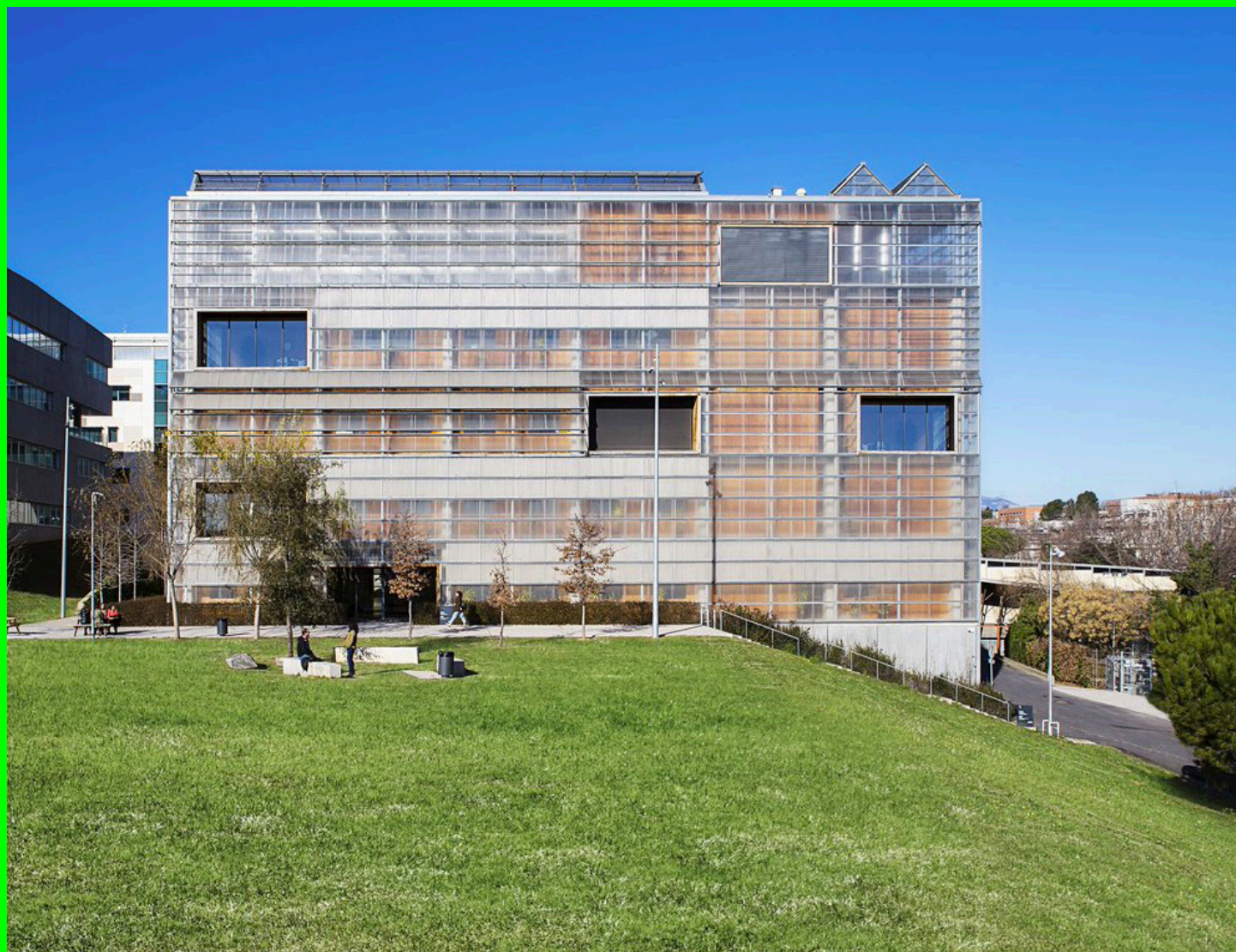
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# 2

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The Institute of Environmental Science and Technology (ICTA-UAB) is a research center of the Universitat Autònoma de Barcelona that hosts approximately 200 researchers trained in environmental sciences spanning natural, socio-economic and engineering fields ● The UAB first established the institute in 2003 in the Faculty of Science. Since October 2014, it has been housed in an emblematic LEED GOLD-certified building on the UAB campus that is highly energy-efficient, and which reflects an open and collaborative working environment ●





Since 2016, ICTA-UAB has received structural funding from the Spanish national program for scientific excellence known as María de Maeztu (Unidad de Excelencia «María de Maeztu» MDM-2015-0552, and CEX2019-000940-M) ● The program has enabled us to develop more cross-cutting transdisciplinary research and training on global, national, and local challenges related to sustainability science, policy, and civic action ●




The institute's decision-making bodies include a Management Team, a Permanent Board and a Council. We also have an Academic Committee for Doctoral Studies in Environmental Science and Technology (as part of the PhD school of ICTA-UAB). There are two official Committees of the council: the Lab Committee (supervised by Dr. André Colonese), and the Alumni Commission (supervised by Prof. Xavier Gabarrell). There is also a voluntary "Equity, Diversity and Care" Committee.

From September 2022, ICTA-UAB management team is led by Prof. Isabel Pont Castejón as Director, Dr. Laura Talens Peiró

as Secretary, Prof. Adriana Artola Casacuberta as deputy Director of the Doctoral Studies, Dr. Esteve Corbera as Scientific Director and Principal Investigator of the Maria de Maeztu Program, and Maica Nogales Malagón as the Institute General Manager. To ensure the accomplishment of the objectives related to gender and diversity policies as well as a more efficient management of ICTA-UAB's resources, the management team also includes Prof. Isabelle Anguelovski as Gender Equity, Diversity, Wellbeing, and Care manager and Dr. André Colonese as Offices and Laboratory manager.

# EXECUTIVE BOARD

<p>ADRIANA ARTOLA CASACUBERTA Director of the Doctoral Studies</p>			
	<p>ANDRÉ COLONESE Offices and Laboratory Manager</p>	<p>ESTEVE CORBERA Scientific Director</p>	
<p>ISABEL PONT CASTEJÓN Director</p>		<p>LAURA TALENS PEIRÓ Secretary</p>	
	<p>MAICA NOGALES MALAGÓN General Manager</p>		
		<p>ISABELLE ANGUELOVSKI Gender Equity, Diversity, Wellbeing</p>	

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# ICTA-UAB IN NUMBERS

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# 3

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86 Researchers  
66 Doctoral Candidates  
49 % Female

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36 Administration and  
Technical Research Staff  
81 % Female

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35 Countries  
1 New ERC Grant

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5,6 M€ Research Funding (2024)  
9 Research Groups

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23 Doctoral Theses Defended  
310 Publications

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# STAFF

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# 4

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# STAFF

## SENIOR RESEARCHERS

---

- Anguelovski, Isabelle
- Belmonte Soler, Jordina
- Brockington, Daniel
- Cole, Helen
- Colonese, André Carlo
- Corbera, Esteve
- Fernández-Llamazares Onrubia, Álvaro
- Gabarrell i Durany, Xavier
- Hickel, Jason
- Honey-Rosés, Jordi
- Kallis, Giorgos
- Kotsila, Panagiota
- Langemeyer, Johannes
- Lombardo, Umberto
- Marquet Sardà, Oriol
- Morén Alegret, Ricard
- Mortyn, Peter Graham
- Pont Castejón, Isabel
- Ramos Martín, Jesús
- Reyes-García, Victoria
- Rovira Val, María Rosa
- Scheidel, Arnim
- Talens Peiró, Laura
- van den Bergh, Jeroen
- Villalba Méndez, Gara
- Villamayor-Tomás, Sergio
- Ziveri, Patrizia

## POSTDOCTORAL RESEARCHERS

---

- Arcas Pilz, Verónica
- Badía Moragas, Alba
- Bellanca, Margherita
- Bernal Hoyo, David
- Bisht, Arpita
- Bunce, Brittany
- Calcagni, Fulvia
- Calderón Argelich, Amalia
- Conde Puigmal, Marta
- D'Alisa, Giacomo
- Dudgeon, Catherine
- Esteve Jordà, Clara
- Galbraith, Eric
- Gallois, Sandrine Laure
- Gamboa Jiménez, Gonzalo
- Gilbert, David
- Grelaud, Michael
- Grosinger, Julia
- Hilbert, Lautaro
- Hoffmann, Patrick
- Khanyari, Munib
- King, Lewis
- Lane, Richard
- Langer, Gerald
- Liotta, Charlotte
- Llaveró Pasquina, Marcel
- Madrid-López, Cristina
- Maestre Andrés, Sara
- Marín Puig, Anna
- Marino, Agnese
- Mattalia, Giulia
- Mejía Ramón, Andrés
- Miñarro Villanueva, Sara
- Nel'lo Deakin, Samuel
- Pastor Molla, María
- Pérez Sánchez, Laura
- Pesce, Giulia
- Petit Boix, Anna
- Pezo Lanfranco, Luis
- Prado Bert, Paula de
- Requena Mora, Marina
- Roca Martí, Montserrat
- Rosa, Brian
- Roy, Brototi
- Salekpay, Foroogh
- Santos de Lima, Letícia
- Savin, Ivan
- Segura Barrero, Ricard
- Semertzidis, Theodoros
- Slameršak, Aljoša
- Sze, Jocelyne
- Ugarte Lucas, Paula
- Unks, Ryan
- Varvarousis, Angelos
- Velasco-Fernández, Raúl
- Villanueva Ribes, Juan
- Yasin, Zehra

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## PHD CANDIDATES

---

- Achucarro Candia, Guillermo
- Alorda Montiel, Irene
- Arosemena Polo, Juan David
- Birnstiel Falcao Amorim, Stephanie
- Breton-Carbonneau, Andreeanne Chu
- Bretschko, Sarah
- Caballeros Finkelstein, Alejandro
- Camacho Caballero, David Alejandro
- Caviedes Paul, Julián
- Chambon, Mouna
- Chiogna, Enrico
- Driouich, Riwan
- Evangelista, Guido
- Facchini, Francesco
- Fanari, Eleonora
- Gaitan Roca, Albert
- Goyal, Meghna
- Grugni, Elisa
- Guldberg, Valentina
- Hanbury Lemos, Mariana Morena
- Heydenreich, Till Jacob
- James, Annie
- Kekelou, Athina Nkolista
- Khan, Feroz Mohamed
- Khromova, Svetlana
- Kisyova, Yoana Chavdarova
- Latreche, Danielle Freya
- Lucas Forcadell, Arturo Manuel
- Luo, Qing
- Macall, Diego
- Manosalva, Jonatan Andrés
- Manzella, Giovanni
- Matamoros García, David Andrés
- Matheney, Austin Gage
- Molins Cabaní, Sara
- Morell Delgado, Gemma
- Morrison, James Christopher
- Muñoz Sueiro, Lucía
- Navarro Alvarez, Andrés
- Nguyen, Anh-Thu
- Núñez Yebra, Pablo
- O'Neill, Ella
- Pape, Judith
- Peixoto Macedo, Thais
- Pérez Sánchez, Cristina
- Ramírez Capetillo, Karla Gabriela
- Rodríguez Puig, Julia
- Roset Pérez, Berta
- Ruiz Iglesias, Fernando Javier
- Sanclemente Crespo, Mateo
- Sierra Montoya, Miquel
- Simón Mas, Gemma
- Steblev, Sergey
- Stevenson, Charles
- Stuit, Andrea
- Tayyab, Omer
- Teruel Cabello, Oriol
- Tomás Pascual, Alexander de
- Tommasi, Gianluigi de
- Torren Peraire, Daniel
- Turner Cabeza, Jack
- Untereiner, Erin Dawn
- Ventura Caballé, Sergi
- Vera, Isabela Jayne
- Villán Delgado, Ana
- Wood Hansen, Oskar
- Zapata Giraldo, Valeria

## RESEARCH SUPPORT TECHNICIANS

---

- Antón Quilez, Susana
- Cassinello Toscano, María
- Comes Bordas, Pau (PAS)
- Eckstein, Sarah Kate
- González Atero, Ramiro
- Marot Robinson, Samuel
- McGrath Michelle, Krista
- Moraleda Cibrián, Núria (PAS)
- Navarro Gibert, David
- Nistor, Brindusa Raluca
- Puigdemunt Puig, Rut
- Renom Fernández, Sílvia
- Sanjuan Agudelo, Luisa María
- Tonini, Pietro
- Van der donk, Layla Lome
- Vidsensky, Leonie Raja

## AFFILIATED RESEARCHERS

---

- Farreny Gaya, Ramón
- Martínez Blanco, Júlia
- Oliver-Solà, Jordi
- Triguero-Mas, Margarita

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# ADMINISTRATION

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ICTA-UAB GENERAL  
MANAGER  
Maica Nogales Malagón

SCIENTIFIC MANAGER  
María Pastor

COMMUNICATION STAFF  
Isabel Lopera Martínez  
(Communications Manager)  
Ana Cañizares

TECHNICAL SUPPORT  
OF RESEARCH  
Verónica Colombo  
(International Projects  
Office (OPI))  
Silvia Martínez Sinibaldi  
(National Projects)

ERC PROJECT MANAGERS,  
AND INTERNATIONAL  
PROJECTS OFFICE (OPI)  
Vanesa del Pino Pérez  
Laura Jiménez Fernández  
Encarna Poncela Fernández  
Laura Vea Rodríguez  
Marta Viana Díaz

IT AND GIS SUPPORT  
Oriol Baeza Martínez  
Marta Borrós Vendrell

ACADEMIC AFFAIRS  
Cristina Durán Díez  
(PhD Program)  
Eduardo Martínez Martínez  
(Masters Program)

MARÍA DE MAEZTU  
FINANCIAL OFFICER  
Lara González Rogel

ICTA-UAB LOGISTICAL  
SUPPORT  
Chari Torreño Valle

ECONOMIC  
MANAGEMENT TEAM  
Gisela Bellido Ferre  
Loli García Lucena  
Maite Jiménez Batista  
Cristina Martín Montemayor  
Ángeles Peláez Expósito  
Rosa Puga Aranda  
Montserrat Puigdomènech Griñó  
Rosa Sans Sobrino  
Gemma Suades Méndez  
Núria Vergara Alarcón

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# RESEARCH FRAMEWORK

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ICTA-UAB's research aims to better understand several environmental and societal challenges that need to be addressed to guarantee human progress in an ecologically sustainable Earth ● We engage with a set of global, yet inter-related environmental challenges, including climate change, biodiversity loss, resource extraction, ocean acidification and water pollution, environmental mobilization and conflicts, and their social and economic ramifications ●





## 5 INTER-RELATED ENVIRONMENTAL AND SOCIAL CHALLENGES

We also engage with important policy and social goals and debates, including for example the United Nations' Sustainable Development Goals (SDGs), the mitigation goals of the Paris Accord on Climate Change, or the Aichi Targets on Biodiversity Conservation ● We expect to provide evidence on the best strategies to make progress on these global and regional sustainability goals, as well as to shed light on possible trade-offs across apparently desirable policy objectives ● Our research efforts are organized around five inter-related Environmental and Social Challenges, which structure our María de Maeztu Unit of Excellence strategic program (2020-2024) ●

# 1 OCEANS

This challenge investigates the impacts of global change on oceanic and coastal systems and the potential of distinct policy pathways toward sustainable and equitable interactions with marine environments and their resources. It integrates social and natural science-based analyses which assess oceanic and coastal changes and propose transformative strategies for sustainable human-ocean interactions.





# 2 LAND

This challenge focuses on the analysis of the combined effects of climate and other drivers of global change on the sustainability of rural landscapes and livelihoods, across many and diverse geographical regions and peoples. It brings together theories and methods across the social sciences to understand how environmental impacts are perceived and managed, and how policies for rural development and environmental conservation perform.



# 3 CONSUMPTION

This challenge explores how the production and consumption of goods and services relate to the use of raw materials and energy, the resulting environmental impacts during their lifespan, and how they affect technological transitions and to human wellbeing. Novel product inventories which combine Life Cycle Analysis with Material Flow Analysis, and datasets of electronic goods to facilitate re-use and recycling are being developed.



# 4 CITIES

This challenge aims to advance actions and projects for climate-responsive, equitable, and healthy cities and urban systems. It expects to generate new quantitative and qualitative evidence on the effectiveness of urban environmental actions and projects for meeting climate and sustainability goals; on their effect on the urban atmospheric or metabolism of resources; on their social and wellbeing impacts; and on the governance and planning frameworks that can maximize environmental and social goals in a changing climate.



# 5 POLICIES

This challenge aims to analyze and advocate for effective and equitable cross-scale policies, institutions, and social responses to address global environmental change. It aims to develop model- and case-based assessments of climate and other sustainability policy instruments, and to investigate how social mobilization or radical policy shifts (e.g., a-growth, or degrowth) can foster a transition toward a more sustainable planet.



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# RESEARCH GROUPS

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ICTA-UAB's research challenges are addressed by nine specific research groups (known as SGRs in the Catalan university and research context) ● These groups share an interest in the study of the causes, mechanisms and impacts of global environmental change, including climate change, the latest interactions with human societies and wellbeing, and the policy and institutional responses necessary for a transition to a sustainable and equitable future ●





## LASEG

Laboratory for the analysis  
of social-ecological  
systems in a globalized  
world

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Research group Generalitat de Catalunya  
2021 SGR 00182  
Principal investigator  
ESTEVE CORBERA ELIZALDE

---

LASEG aims to better understand how local and indigenous knowledge can contribute to environmental sustainability, and how to better reconcile biodiversity conservation and the provision of ecosystem services with human wellbeing, in both rural and urban settings.



## AEROBIOS

Aerobiology, atmospheric  
transport, and health

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Research group Generalitat de Catalunya  
2021 SGR 00519  
Principal investigator  
JORDINA BELMONTE SOLER

---

AEROBIOTAS focuses on the study of the atmosphere's biological components: pollen and spores of fungi and their allergens and micro-arthropods, and the application of this knowledge to allergology, public health and animal and plant health.





## MERS

### Marine and environmental biogeosciences

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Research group Generalitat de Catalunya  
2021 SGR 00640  
Principal investigator  
PATRIZIA ZIVERI

MERS is addressing various environmental biological and geochemical processes regulating the marine and freshwater realms as well as interacting with climate change. Human-induced global and climate change affects society, natural resources and economy around the world and the awareness of their impact has increased considerably in the last decades.



## SOSTENIPRA

### Sustainability and environmental protection

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Research group Generalitat de Catalunya  
2021 SGR 00734  
Principal investigator  
XAVIER GABARRELL I DURANY

SOSTENIPRA aims to develop, adapt, and apply tools to promote sustainability and environmental protection with a systemic, life cycle approach. Our research focuses on resource management for a circular economy, sustainable food systems, and integrated analysis of urban nature-based solutions.



## IMPACTANT

### Dynamics of natural systems and the anthropic impacts

---

Research group Generalitat de Catalunya  
2021 SGR 00783  
Principal investigator  
JOAN VILLANUEVA RIBES

---

IMPACTANT studies the impact of human activities on the natural environment. The highly interdisciplinary approach combines tools from environmental chemistry, remote sensing, wildlife observation, and citizen science, bridging the natural and social sciences to study the Earth System from an integrated perspective.



## ECOLECON

### Ecological Economics

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Research group Generalitat de Catalunya  
2021 SGR 01502  
Principal investigator  
GIORGOS KALLIS

---

ECOLOGICAL ECONOMICS is the interdisciplinary science of the study of sustainability. The group's mission is to develop, apply and disseminate critical knowledge necessary for understanding causes and solutions to environmental problems linking them to economic systems and policies that create or address these problems.





## URBAN MOBILITY

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Research group  
Generalitat de Catalunya 2021 SGR 00577  
Principal investigator  
ORIOL MARQUET SARDÀ

---

URBAN MOBILITY aims to adapt mobility studies to rapidly changing urban mobility patterns. Focused on generating innovative global knowledge, educating students for future challenges, and serving as a hub for research, public and private sectors. Key research areas include mobility patterns, urban form, gender inclusion, new methodologies, and policy evaluation. The research is characterized by innovative methodologies and high interdisciplinarity.



## BCNUEJ Barcelona Laboratory for Urban Environmental Justice and Sustainability

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Research group  
Generalitat de Catalunya 2021 SGR 00116  
Principal investigator  
ISABELLE ANGUELOVSKI

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BCNUEJ'S research is dedicated to fostering just, inclusive, and sustainable cities. It prioritizes equity in urban planning, focusing on historically marginalized groups. Their work addresses emerging urban inequalities, exploring environmental justice and sustainability through interdisciplinary approaches, including urban planning, policy, sociology, geography, and planning health.





## EARLYFOODS

### Evolution and impact of early food production systems

Research group  
Generalitat de Catalunya 2021 SGR 00527  
Principal investigator  
ANDRÉ CARLO COLONESE

EARLYFOODS unites scientists in environmental-social sciences and prehistoric archaeology and seeks to enhance knowledge of early food production systems, exploring their origins, evolution, and environmental impacts in Europe, Africa, Asia and South America.



## IASTE

### Integrated assessment: sociology, technology, and the environment

Research group  
Generalitat de Catalunya 2017 SGR230  
Principal investigator  
RAÚL VELASCO-FERNÁNDEZ

IASTE develops the transdisciplinary MuSIASEM approach, which situates process and relative changes within systemic and absolute dynamics, enabling a holistic analysis of how socio-ecological systems navigate limits. The group develops biophysical accountings that incorporate environmental and unpaid activities like care work without commodifying them. It also uses a post-normal approach to co-produce knowledge claims to inform policy in the face of uncertainty.

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# SCIENTIFIC ADVANCES

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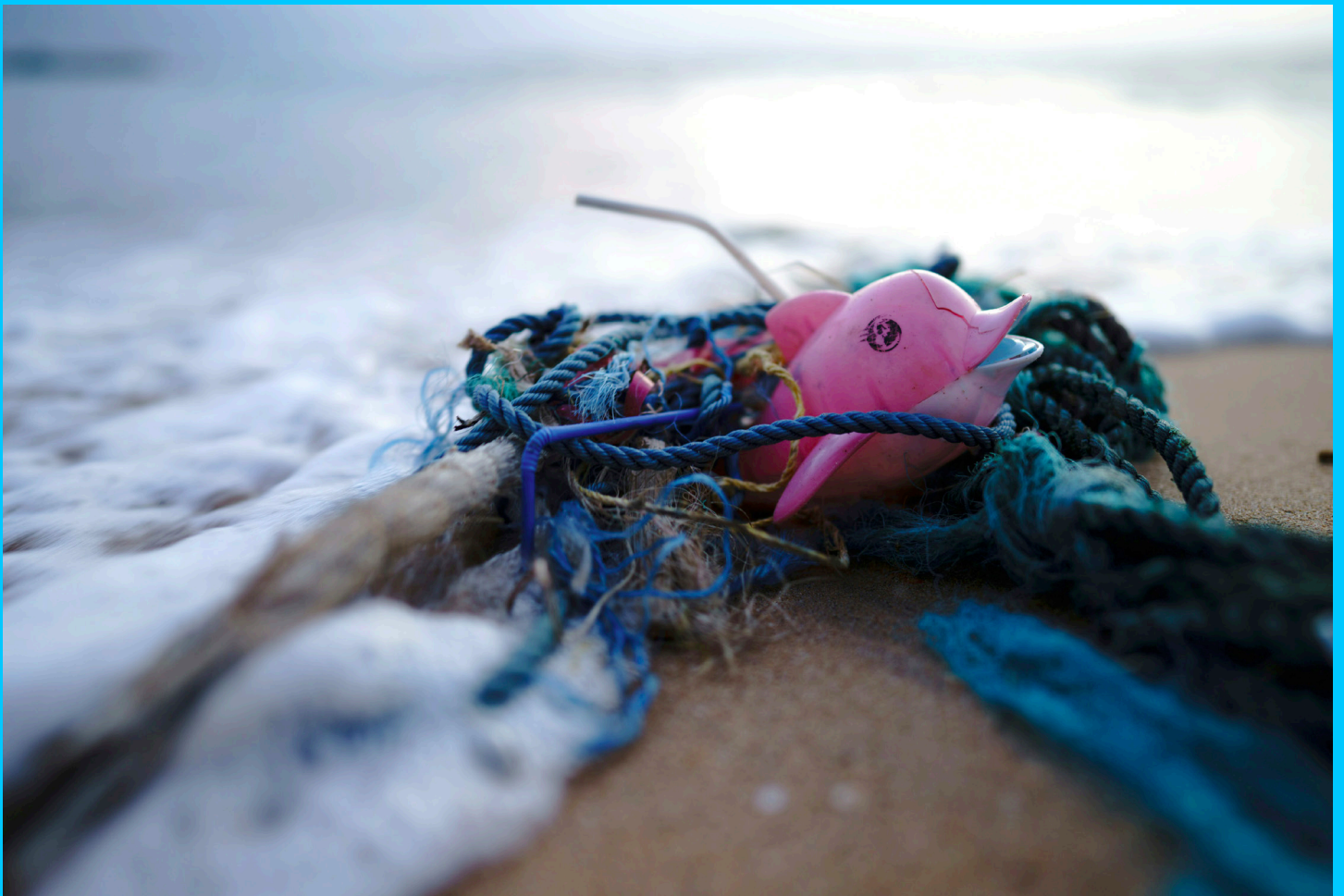
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# 7

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# OCEANS

This challenge investigates the impacts of global change on oceanic and coastal systems and the potential of distinct policy pathways toward sustainable and equitable interactions with marine environments and their resources ● It integrates social and natural science-based analyzes which assess oceanic and coastal changes and propose transformative strategies for sustainable human-ocean interactions ●





## SA.1

# Local fisheries knowledge and official landing data point to decades of fish decline in West Africa

Small-scale fisheries play a pivotal role in providing food and livelihoods for millions worldwide, particularly in low-income countries in Africa. A common challenge in these fisheries is the relative scarcity of statistical data on the composition, abundance, and distribution of fisheries resources, which is crucial for effective management. In data-poor regions, like West Africa, local ecological knowledge has been advocated as a valid source of information for assessing stock conditions and historical performance in relation to distinct drivers of change. This study combines 50 years of users' percep-

tions and landing data from Maio island, Cabo Verde, where fishing communities dependent on fish stocks are becoming increasingly vulnerable. Our aims were 1: to investigate changes in small-scale fisheries catches over the past five decades, and 2: to understand and refine the use of these data as alternative or complementary sources in local-regional fisheries management. Our results point to a staggering decline in local stocks that may exacerbate the vulnerability of West African coastal fisheries.

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Macedo, T. P., Ziveri, P., Varela, B., Colonese, A. C. (2025). Local knowledge and official landing data point to decades of fishery stock decline in West Africa. *Marine Policy*, 171, Article 106447.

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<https://doi.org/10.1016/j.marpol.2024.106447>

© Thais Macedo



# SA.2

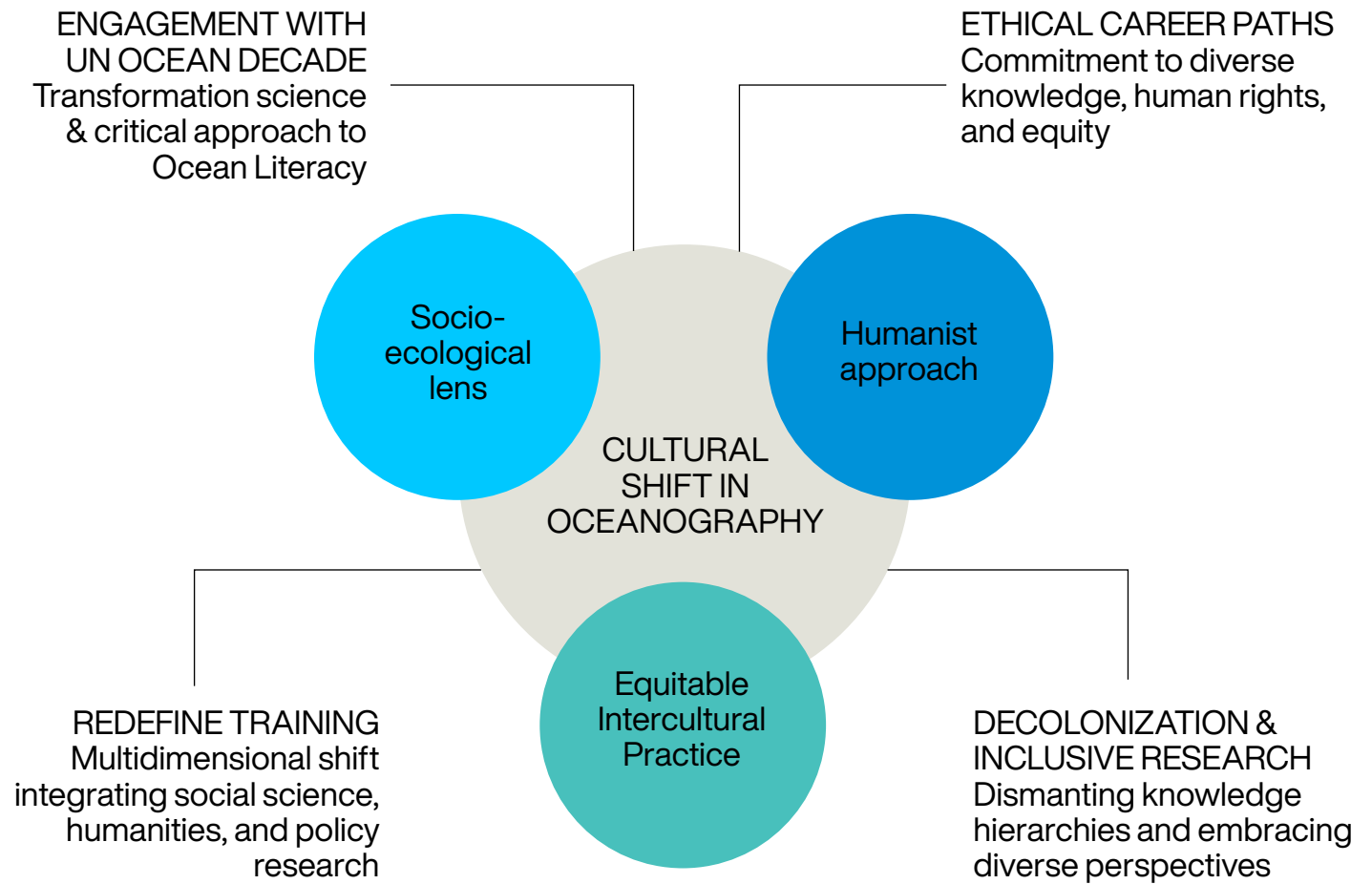
## A Call for a Cultural Shift in Oceanography

Oceanography stands at a critical juncture, confronting the coupled challenges of climate change and biodiversity loss while also addressing calls for equity and justice in ocean economic development and governance. This paper defines and advocates for the weaving of three perspectives into oceanography education, research, and policy practice: the Socio-Ecological Lens, the Humanist Approach, and Equitable Intercultural Practice. By embracing these frameworks, the field can transcend the challenges of classical oceanography, paving the way for academic and professional practices that are more inclusive, equitable, and attuned to the intricacies of human-ocean relationships. Such a shift will foster interdisciplinary and

transdisciplinary collaboration, elevate the role of humanities in oceanographic education, and push for decolonizing methodologies for ocean policy engagement, thereby enabling ethical career paths. Ultimately, these perspectives will empower oceanographers to cultivate a deeper and more equitable bond with the oceans, helping them to steer society with the transformative science practices that are fundamentally needed in a successful United Nations Decade of Ocean Science for Sustainable Development.

Cavaleri Gerhardinger, L., Moreira Moura, G.G., McKinley, E., Christie, P., Narchi, N.E., Colonese, A.C., ...Early Capistrán, M.M. (2024). A Call for a Cultural Shift in Oceanography. *Coastal Management*, 52(4-5), 175-187.

<https://doi.org/10.1080/08920753.2024.2370214>



## SA.3

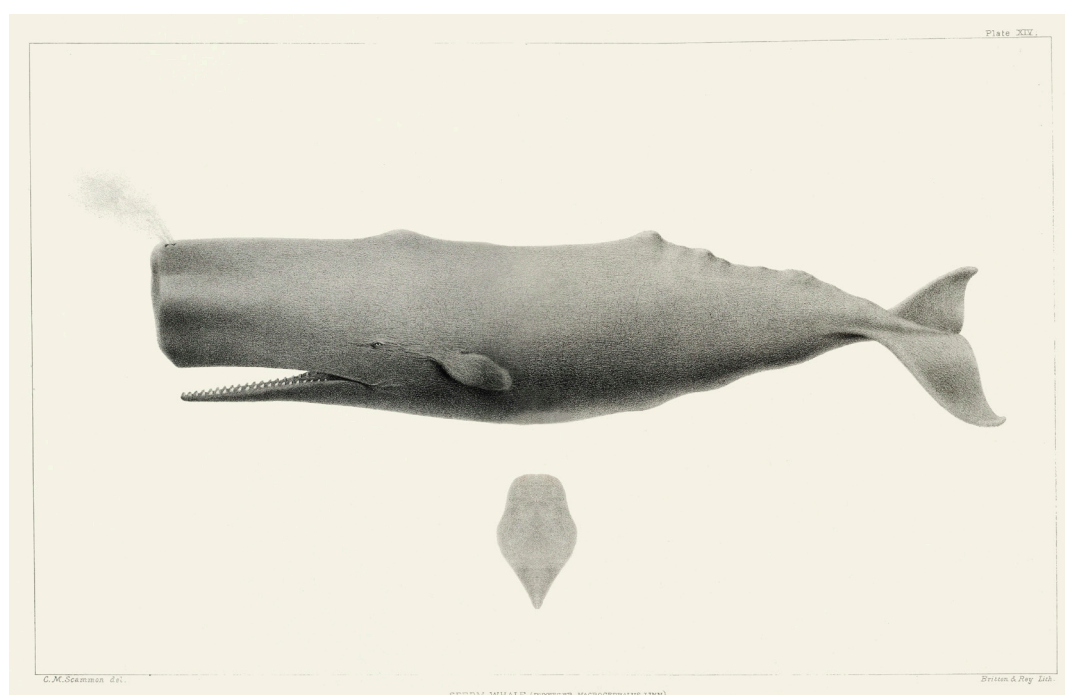
# Global research priorities for historical ecology to inform conservation

Historical ecology draws on a broad range of information sources and methods to provide insight into ecological and social change, especially over the past ~12,000 years. While its results are often relevant to conservation and restoration, insights from its diverse disciplines, environments, and geographies have frequently remained siloed or underrepresented, restricting their full potential. Here, scholars and practitioners working in marine, freshwater, and terrestrial environments on six continents and various archipelagoes synthesize knowledge from the fields of history, anthropology, paleontology, and ecology with the goal of describing global research priorities for historical ecology to influence conservation. This research uses a structured decision-making process to identify

and address questions in four key priority areas: (i) methods and concepts, (ii) knowledge co-production and community engagement, (iii) policy and management, and (iv) climate change impacts. This work highlights the ways that historical ecology has developed and matured in its use of novel information sources, efforts to move beyond extractive research practices and toward knowledge co-production, and application to management challenges including climate change.

McClenachan, L., Rick, T., Thurstan, R. H., Trant, A., Alagona, P. S., Alleway, H. K., Armstrong, C., Bird, R. B., Rubio-Cisneros, N. T., Clavero, M., Colonese, A. C., Cramer, K., Davis, A. O., Drew, J., Early-Capistrán, M. M., Gil-Romera, G., Grace, M., Hatch, M. B. A., Higgs, E., ... Van Houtan, K. S. (2024). Global research priorities for historical ecology to inform conservation. *Endangered Species Research*, 54, 285-310.

<https://doi.org/10.3354/ESR01338>



Natural history of the cetaceans and other marine mammals of the western coast of North America (1872)

© Charles Melville Scammon (1825–1911)

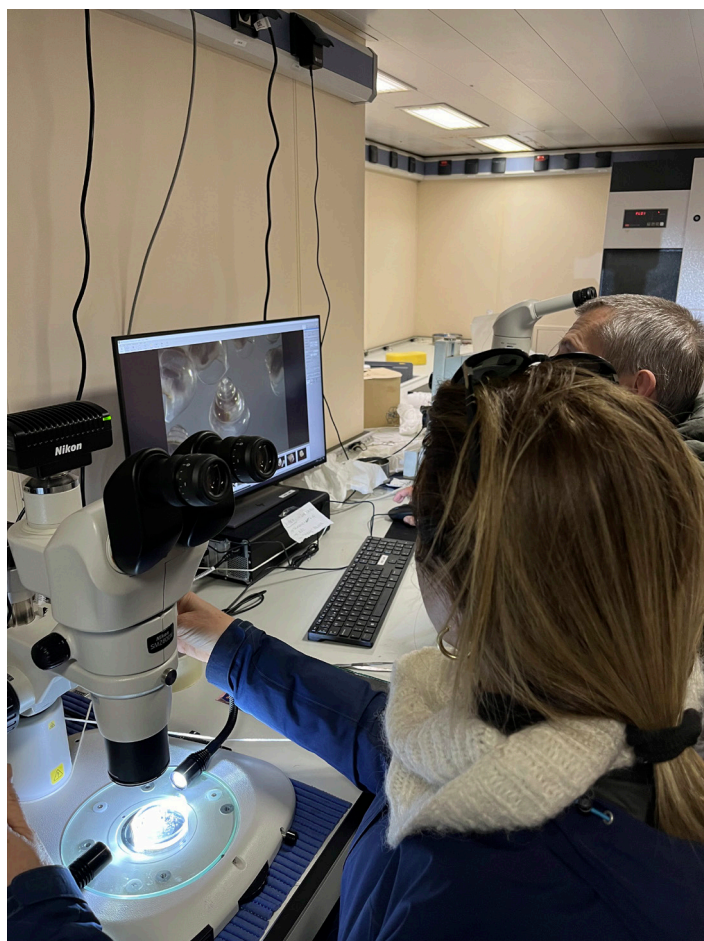
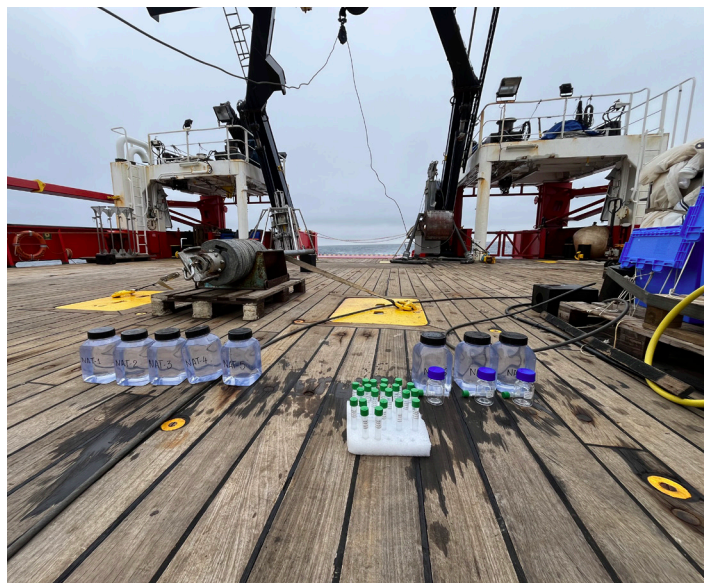


## SA.4

# New evidence of the Atlantification of the Arctic Ocean

During August and September 2024, an oceanographic expedition involving a multi-disciplinary team and lead by Patrizia Ziveri sailed from Vigo (Spain) to Reykjavik (Iceland), after sampling from the archipelagos of Azores (subtropical Atlantic) to Svalbard (Arctic Ocean). A main focus of this expedition was to address marine biodiversity changes under human-induced climate change. Anthropogenic climate change is generating alarming effects, such as ocean warming, acidification, surface ocean nutrient depletion and deoxygenation, affecting both small plankton and fish. In this study, we targeted specific groups of micro-organisms, the calcifying plankton, very relevant for the regulation of the ocean biogeochemistry and the uptake of atmospheric CO<sub>2</sub>. The biogeographical transect allowed to gather evidence of the impact of Atlantification of the Arctic Ocean on the seawater physicochemical characteristics and on the pelagic ecosystems. This process related to climate change involves the progressive invasion of Atlantic waters into the polar Arctic Ocean. This is changing the primary and secondary productivity and allowing species from more temperate latitudes to expand their habitat northwards, generating new food competition and predation on Arctic species.

BIOCAL cruise





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# LAND

This challenge focuses on the analysis of the combined effects of climate and other drivers of global change on the sustainability of rural landscapes and livelihoods, across many and diverse geographical regions and people ● It brings together theories and methods across the social sciences to understand how environmental impacts are perceived and managed, and how policies for rural development and environmental conservation perform ●





## SA.1

# Interrogating one of conservation's most influential statistics

This article, written in collaboration with Indigenous Peoples' leaders, questions the empirical basis of the long-repeated claim that "80% of the world's biodiversity is found in Indigenous Peoples' territories." The study presents empirical evidence to show that the claim is not well-founded, and that the true extent of the contribution of Indigenous Peoples cannot be so easily quantified. The authors' scientific detective work identified the origins of the claim in misquotations and poorly summarized research but also found ample evidence that Indigenous Peoples

and their territories are essential to the world's biodiversity, thus rendering the use of an unsupported statistic unnecessary. The study concludes that recognition in policy circles that Indigenous Peoples play a fundamental role in supporting planetary sustainability will be stronger if based on credible, legitimate and robust evidence.

Fernández-Llamazares, Á., Fa, J.E., Brockington, D., Brondízio, E.S., Cariño, J., Corbera, E., Farhan Ferrari, M., Kobei, D., Malmerv, P., Márquez, G.Y.H., Molnár, Z., Tugendhat, H., Garnett, S.T. (2024). No basis for claim that 80% of biodiversity is found in Indigenous territories. *Nature*, 633: 32-35.

<https://doi.org/10.1038/d41586-024-02811-w>

© Joan de la Malla



## SA.2

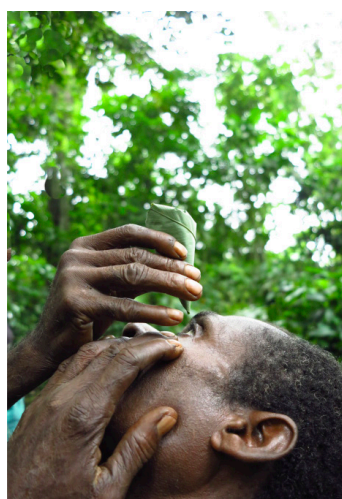
# The future is in the younger generations: Baka children in Southeast Cameroon have extensive Knowledge on medicinal plants

This study underscores the vital role children play as custodians of ethnobotanical knowledge, particularly within the context of local healthcare systems amid global change. Focusing on the Baka, a forager-horticulturalist society in Cameroon, the research explored the medicinal plant knowledge of Baka children employing a mixed-methods approach combining both ex situ interviews and in situ fieldwork. Involving 106 children aged 5 to 16 years,

the study documented a considerable amount of plants and remedies: 128 medicinal plants were reported to treat 53 ailments, corresponding to 172 remedies. While the ex situ and in situ methods yielded overlapping plant knowledge, each revealed unique dimensions of this ethnobotanical expertise. These findings emphasize the importance of children's contributions to ethnobotanical research and stress the need to develop methodologies that prioritize their knowledge, positioning childhood as a central focus in sustainable, future-oriented ethnobotanical studies.

Gallois, S., van Andel, T., Ambassa, A., van Bommel, S. (2024). The Future Is in the Younger Generations: Baka Children in Southeast Cameroon Have Extensive Knowledge on Medicinal Plants. *Economic botany* 78, 15–31.

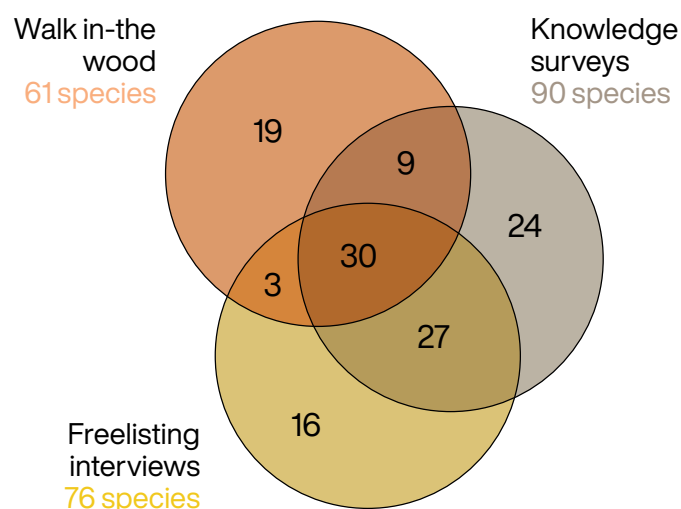
<https://doi.org/10.1007/s12231-023-09589-4>



Baka adult dripping an herbal extract in the eye through a funnel made of a Marantaceae leaf.



Baka adolescent preparing a plant-based string to foster child's growth.



Overlap in medicinal plant species reported (n = 128) between the three methods (n = 106 children)



## SA.3

# Severe droughts isolate communities in the Brazilian Amazon

Extreme weather events, such as droughts, have become the new normal for the Amazon basin. Riverine communities are particularly vulnerable. Few studies have examined the direct and indirect effects of severe droughts on local Amazonian people through disruptions to navigation. Research funded by AGAUR, Catalunya Government, has shown that nearly half of non-Indigenous localities and 54% of Indigenous villages of the Brazilian part of the Amazon basin are prone to isolation during severe droughts. Recent droughts have prolonged low water levels by more than a month beyond the average, causing devastating impacts on ecosystems and local communities. “We are pleased that our spatial and hydrological analyzes have informed high-level discussions within the Brazilian government on addressing the vulnerability of the Amazon

population during extreme droughts”, said Letícia Santos de Lima, ICTA-UAB researcher and lead author of the study. These results were published in *Communications Earth & Environment*.

Santos de Lima, L., Silva, F.E., Dorio Anastácio, P.R., Kolanski, M.M.D.P., Pires Pereira, A.C., Menezes, M.S.R., Cunha, E.L.T.P., Macedo, M.N. (2024). Severe droughts reduce river navigability and isolate communities in the Brazilian Amazon. *Communications Earth & Environment*, 5(1), Article 370.

<https://doi.org/10.1038/s43247-024-01530-4>



↑  
Manaus, Amazonia, Brazil  
© Letícia Santos de Lima



Drone of Amazoni  
© João Paulo Borges



## SA.4

# The Conservation Data Justice Symposium

In May 2024 a group of 32 researchers convened over four days as part of the first Conservation Data Justice Symposium to present 21 pre-written and pre-circulated papers. Research on conservation data justice arises because of the proliferation of large data sets, satellite data, algorithmic analyzes and complex models in conservation decision-making. All have significant implications for data justice, through issues of recognition, procedure and the distributional consequences of systematic biases that can be engrained in these data. Responding to these challenges,

this Symposium examined the many features of drones, critical analyzes of key conservation databases, satellite data, algorithms, mapping land use in detail, and artificial intelligence. Conceived as a foundational event for a significant new area of research, this gathering was marshalled by Lourdes Vera, Laura Sauls, Rose Pritchard, Eric Nost, Jenny Goldstein, Lauren Drakopoulos and Dan Brockington, with funding from the CONDJUST ERC project.

<https://condjust.eu/the-first-conservation-data-justice-symposium/>





# CONSUMPTION

This challenge explores how the production and consumption of goods and services relate to the use of raw materials and energy, the resulting environmental impacts during their lifespan, and how they affect technological transitions and human wellbeing. Novel product inventories which combine Life Cycle Analysis with Material Flow Analysis, and datasets of electronic goods to facilitate re-use and recycling are being developed ●





## SA.1

# Advancing Sustainable Batteries: Eco-Design and Circularity for a Greener Future

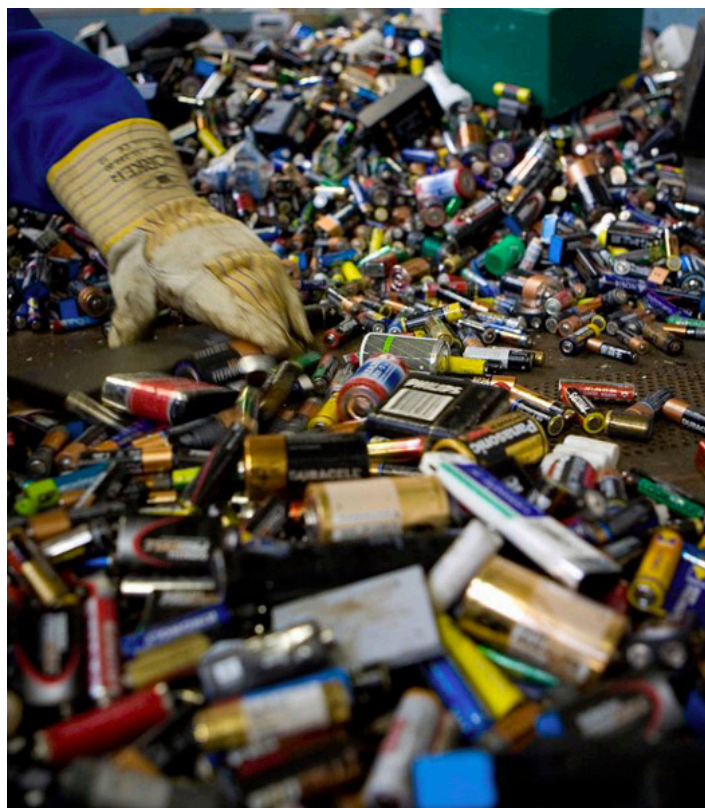
Batteries are crucial for the future of energy and digital technologies, driving sustainable energy storage, electric mobility, and portable electronics. However, their environmental impact necessitates innovations in design, materials, and circularity. A promising research direction focuses on ecodesign frameworks and circularity assessment to enhance battery sustainability.

Bio-based battery prototypes have shown up to a 92% reduction in environmental impact, demonstrating the potential of biodegradable materials and customized energy solutions in minimizing electronic waste. Additionally, a Circularity Scoring System evaluates lithium-ion batteries for repair, reuse, remanufacturing, and recycling, refining key indicators to support circular economy strategies and reduce reliance on critical raw materials. These sustainable design strategies contribute to minimizing environmental impact, extending battery lifespan, and optimizing resource efficiency. These advancements play a pivotal role in shaping the next generation of digital and energy technologies, ensuring a more sustainable and efficient energy future.

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Martin N, Sanclemente Crespo M, Antón S and Talens Peiró L. Is carbon footprint enough when assessing the impacts of electric vehicle batteries? Growth vs Climate 2024

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© Ton Koene-Alamy



## SA.2

### Environmental assessment and social acceptability of urine source separation and re-use through fertilizer in the ICTA-UAB building in Barcelona

ICTA-UAB researchers have explored the potential of human urine as a source of renewable nitrogen for fertilizer production. The project “Building Integrated Agriculture for an Effective Ecological Transition” (BINAfET) for cities has been developed by Sostenipra and GENOCOV researchers from the Department of Chemical, Biological and Environmental Engineering. One of its main goals was to study how building integrated agriculture can contribute to urban resilience and more efficient urban resource management. Various methods, including a World Café, semi-structured interviews, a focus group discussion and a questionnaire, are employed to assess the social acceptability of the urine diversion and fertilizer pilot. Through a life cycle Assessment, the study demonstrated that an on-site lab-scale aerobic reactor for nitrogen recovery reduces environmental impact, calling for the implementation of large-scale nitrogen recovery systems in cities.

<https://www.fertilecity.com/en/binafet-en/>





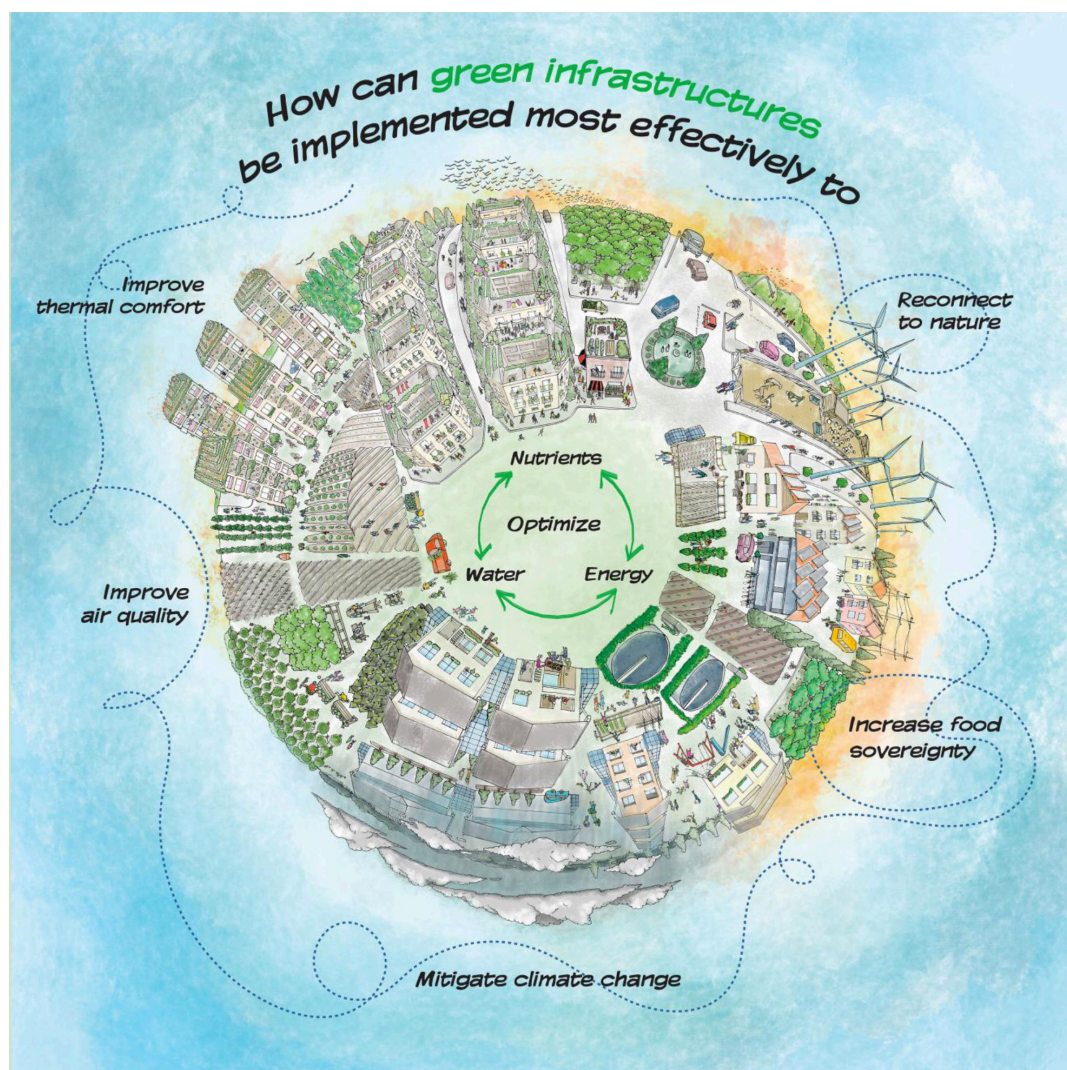
## SA.3

# Workshop: Green roofs in Oslo by 2030

Unused rooftops present a valuable opportunity to develop green spaces in urban areas. Recognizing this, Oslo is actively encouraging the installation of green roofs throughout the city to improve urban conditions. Assessing the potential benefits and drawbacks of green roofs, both locally and globally, is essential for evaluating their effectiveness. URBAG has addressed this by studying the impact of green roofs on local and global

vulnerabilities. To gain a thorough understanding of these changes and their importance for Oslo, an online participatory workshop was held with stakeholders from the public, academic, and private sectors. Results from the assessment can inform local policymaking by prioritizing urban areas for green roof implementation that provide the greatest number of desired impacts. Additionally, existing urban indicators such as the *Blue-green factor* could incorporate in its calculation the possible tradeoffs and synergies observed in the green roof assessment.

[https://urbag.eu/wp-content/uploads/2024/03/Presentations\\_Workshop-Oslo.pdf](https://urbag.eu/wp-content/uploads/2024/03/Presentations_Workshop-Oslo.pdf)



# SA.4

## The food-water-climate nexus of green infrastructure: Examining ecosystem services trade-offs of peri-urban agriculture

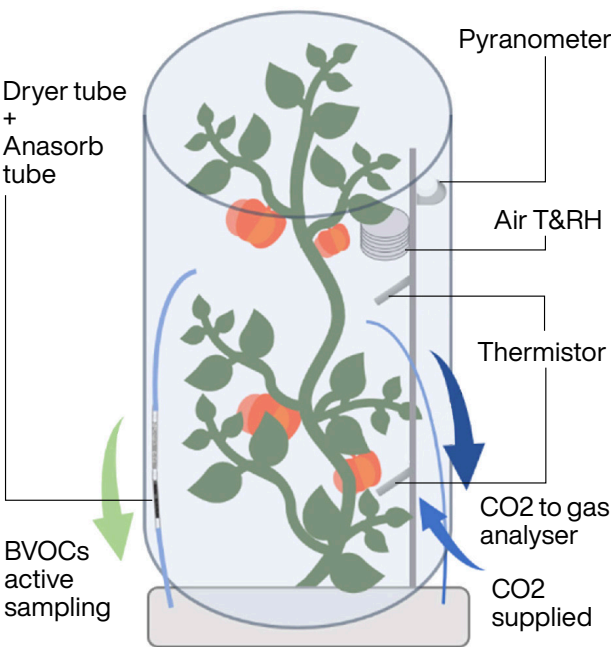
In relation to accelerating a just green transition, URBAG researchers developed an assessment framework centered on vulnerability to guide the implementation of nature-based urban solutions (NBS). Effective NBS planning can accelerate the green transition by maximizing positive impacts and minimizing negative ones, while ensuring efficient resource use for implementation and maintenance. Prioritizing NBS based on a spatially differentiated understanding of social and ecological needs breaks from the traditional approach of maximizing net ecosystem service benefits. This method concretely operationalizes spatial justice from both human and more-than-human perspectives, proving valuable for strategic spatial planning.

The project highlights the benefits of peri-urban agriculture, which helps provide local

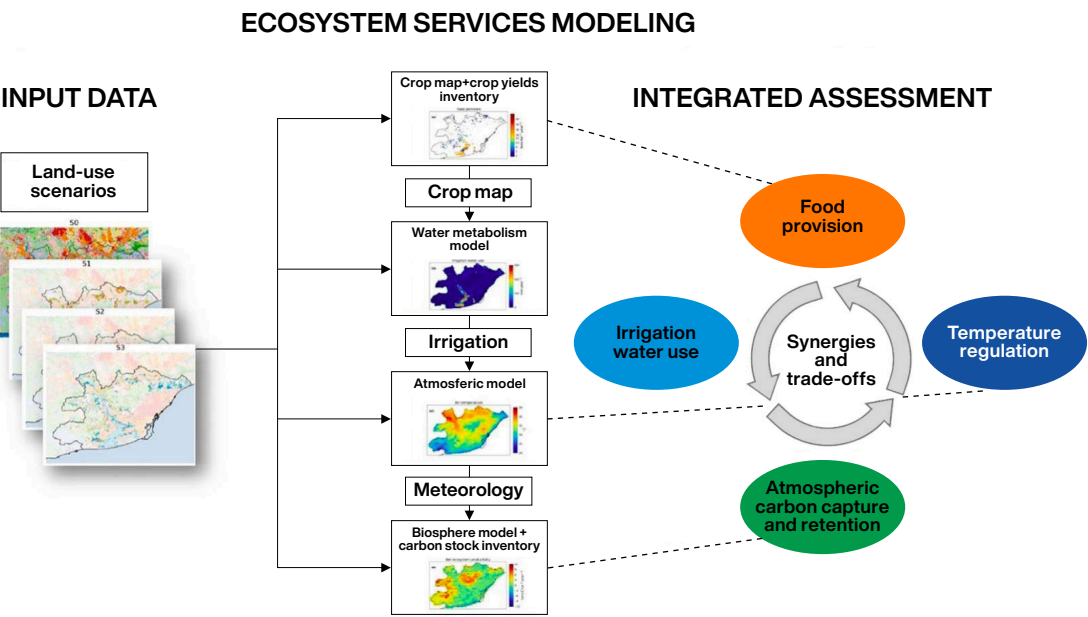
food and regulate temperatures. Research shows that changing land use, like turning urban areas into farms or parks, can improve urban climate and air quality.

Segura-Barrero, R., Langemeyer, J., Badia, A., Ventura, S., Vila-Traver, J., & Villalba, G. (2024). The food-water-climate nexus of green infrastructure: Examining ecosystem services trade-offs of peri-urban agriculture. *Science of the total environment*, 951, Article 175799.

<https://doi.org/10.1016/j.scitotenv.2024.175799>



Picture taken during the setup of the sampling chamber on a tomato plant.



Simplified representation of the dynamic (active) emission sampling with static enclosure, with or without CO2 supply.



# CITIES

This challenge aims to advance actions and projects for climate-responsive, equitable, and healthy cities and urban systems. It expects to generate new quantitative and qualitative evidence on the effectiveness of urban environmental actions and projects for meeting climate and sustainability goals; on their effect on the urban atmospheric or metabolism of resources; on their social and wellbeing impacts; and on the governance and planning frameworks that can maximize environmental and social goals in a changing climate ●





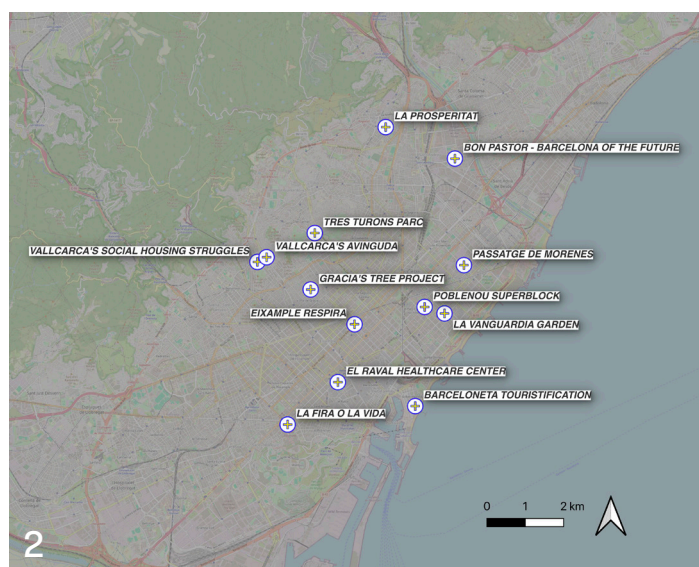
## SA.1

# Countermapping as novel method to illuminate radical green imaginaries

Urban greening is not just an environmental intervention; it also reshapes the social fabric of cities. While most discussions focus on large-scale, top-down greening projects, ICTA-UAB researchers highlight the role of grassroots movements in shaping alternative green visions. Using counter-mapping—a methodology developed in collaboration with local activists—a study of 13 environmental justice revealed that that communities imagine green spaces in different ways: as places to be preserved, as sites linked to past social struggles and fears of future displacement, and as visions of more inclusive and livable neighborhoods. Understanding these diverse perspectives is crucial to addressing the contradictions of urban greening, often referred to as a “green paradox” when it contributes to gentrification. Mapping these imaginaries also helps foster collaboration, dialogue, and reflection among local movements and policymakers in Barcelona and beyond.

Matheney, A., Anguelovski, I., Kotsila, P., Sekulova, F., Oscilowicz, E. (2024). Illuminating radical spatial imaginaries: Counter-mapping urban environmental justice struggles for the city yet to come. *Environment and Planning E: Nature and Space*, 7(5), 2097-2125.

<https://doi.org/10.1177/25148486241270092>



1. Photo of the “pla popular” with activists of the “Plataforma d’habitatges afectats dels 3Turons”

2. Struggles map

SA.2

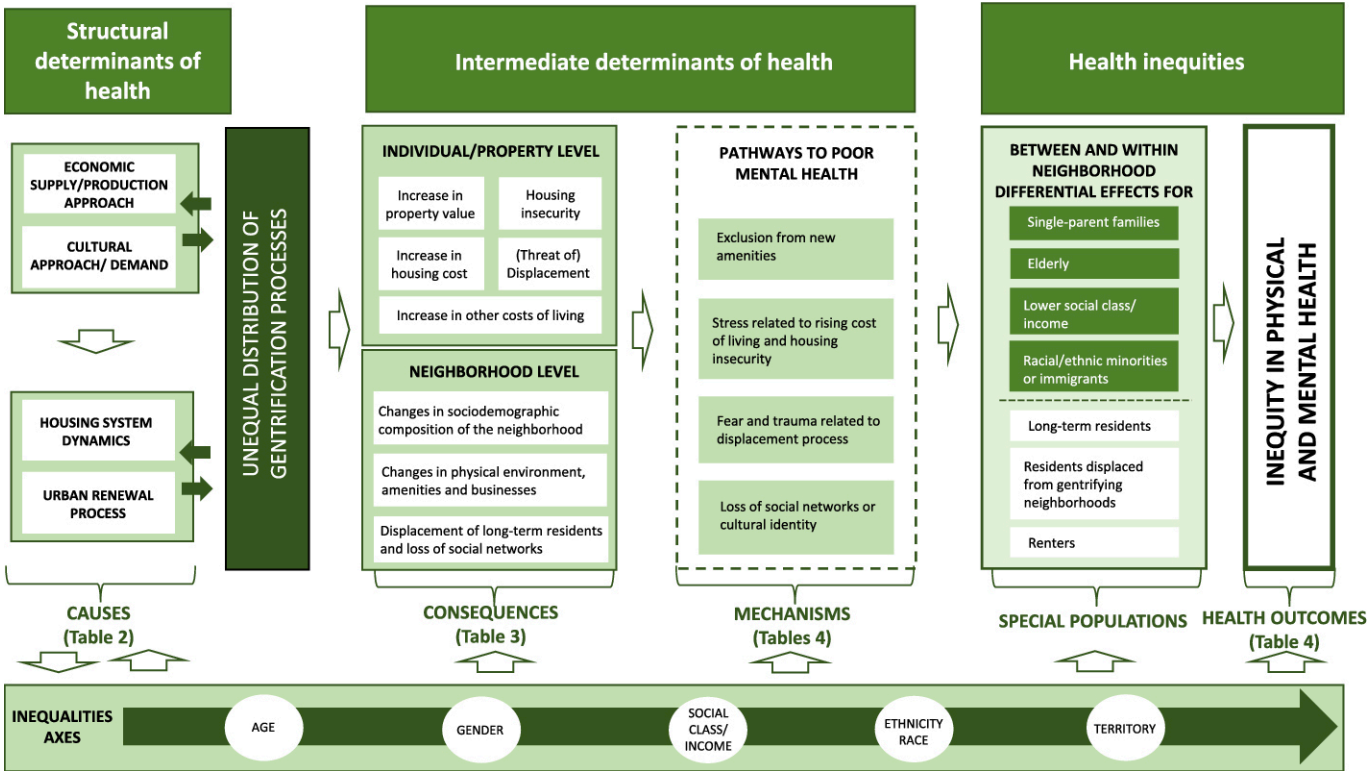
New conceptual framework to help study the physical and mental health impacts of gentrification

Collaboration between ICTA-UAB and international public health scholars helped develop a framework for understanding how gentrification affects urban health and health inequalities, drawing from different disciplines and perspectives. In addition to reviewing research and using their own expertise, the authors gathered insights from researchers, activists, and professionals through a structured consultation process (eDelphi method) to identify areas of agreement and disagreement. Participants widely agreed that gentrification has significant effects on mental health and recognized its broader social causes and consequences. However, there was less consensus on the exact ways in

which gentrification impacts health and which specific health outcomes are most affected. Based on this input, the study developed an evidence-based framework to explore the connection between gentrification and health.

Cole, H. V. S., Vásquez-Vera, H., Triguero-Mas, M., Sánchez, A. F., Oliveras, L., Carrere, J., Aviñó, C. J., Mehdipanah, R. (2024). Causes, consequences and health impacts of gentrification in the Global North: a conceptual framework. *Journal of Housing and the Built Environment*, 39(2), 1081-1102.

<https://doi.org/10.1007/s10901-023-10086-2>





## SA.3

# Ownership of change key to addressing just climate resilience and health equity

Traditional urban planning has often left marginalized communities vulnerable to climate-related health crises. ICTA-UAB researchers and collaborators in Boston have examined how fostering community ownership of change can enhance climate resilience and well-being. Through participatory action research, research reveals that climate gentrification weakens community advocacy for climate security and disrupts social support networks, negatively impacting mental health. The research identifies three key dimensions of ownership: social identity,

decision-making and development processes, and knowledge. Strengthening these elements can enable communities to advocate for solutions that address their specific needs. Community-led planning, policies that prioritize basic needs, and measures to prevent gentrification are key to support local care networks and well-being.

Breton-Carbonneau, A.C., Anguelovski, I., O'Brien, K., Echevarría-Ramos, M., Fina, N., Genty, J., Seeder, A., Binet, A., Williams, P.C., Cole, H.V. (2024). Exploring ownership of change and health equity implications in neighborhood change processes: A community-led approach to enhancing just climate resilience in Everett, MA. *Health & place*, 89, 103294.

<https://www.sciencedirect.com/science/article/pii/S1353829224001229>

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## SA.4

# COVID 19 exposed and worsened social inequalities among migrant agricultural workers

It is well known that COVID-19 impacted the health and wellbeing of vulnerable groups. ICTA-UAB researchers further uncovered how the pandemic exposed and deepened social inequalities, particularly in the treatment of migrant agricultural workers. Focusing on Lleida, Spain, their research highlights how policies declaring these workers “essential” for food provision primarily served to secure cheap labor for agribusiness, while their precarious working and living conditions remained unchanged. Using biopolitical and necropolitical perspectives, they reveal that migrant farmworkers were simultaneously deemed indispensable yet treated as disposable. An intersectional approach

further underscores how discrimination and racism shaped their health outcomes and broader social marginalization. This research emphasizes the need for systemic change to recognize, value, and protect agricultural workers beyond crisis-driven economic imperatives.

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Kotsila, P., Argüelles, L. (2024). The necropolitics of expendability: migrant farm workers during COVID-19. *The Journal of Peasant Studies*, 51(2), 441–465.

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<https://doi.org/10.1080/03066150.2023.2243440>

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# POLICIES

This challenge aims to advance actions and projects for climate-responsive, equitable, and healthy cities and urban systems. It expects to generate new quantitative and qualitative evidence on the effectiveness of urban environmental actions and projects for meeting climate and sustainability goals; on their effect on the urban atmospheric or metabolism of resources; on their social and wellbeing impacts; and on the governance and planning frameworks that can maximize environmental and social goals in a changing climate ●





## SA.1

# Post-growth: the science of wellbeing within planetary boundaries

Recent research challenges the assumption that continuous economic growth is essential for societal progress. The study argues that relentless GDP expansion, especially in affluent countries, not only drives environmental degradation but also offers diminishing improvements in public wellbeing. By synthesizing insights from ecological economics, wellbeing economics, and degrowth studies, the research shows that increasing income levels eventually lead to reduced gains in health, education, and overall quality of life. It highlights that while relative improvements in resource use exist, absolute decoupling

from economic growth remains elusive. The findings suggest that a shift toward policies prioritizing human wellbeing and environmental sustainability—such as universal basic services, reduced working hours, and equitable resource distribution—could better align societal development with the planet’s ecological limits. This new perspective calls for rethinking traditional growth metrics, promoting a future where prosperity is measured by quality of life rather than relentless economic expansion.

Kallis, G., Hickel, J., O’Neill, D., Jackson, T., Victor, P., Raworth, K., Schor, J., Steinberger, K., Ürge-Vorsatz, D. (2025). Post-growth: the science of wellbeing within planetary boundaries. *The Lancet Planetary Health*. 9, e62-e78

[https://www.thelancet.com/journals/lanplh/article/PIIS2542-5196\(24\)00310-3/fulltext](https://www.thelancet.com/journals/lanplh/article/PIIS2542-5196(24)00310-3/fulltext)

© Nikolai Kolosov-Pixabay



SA.2

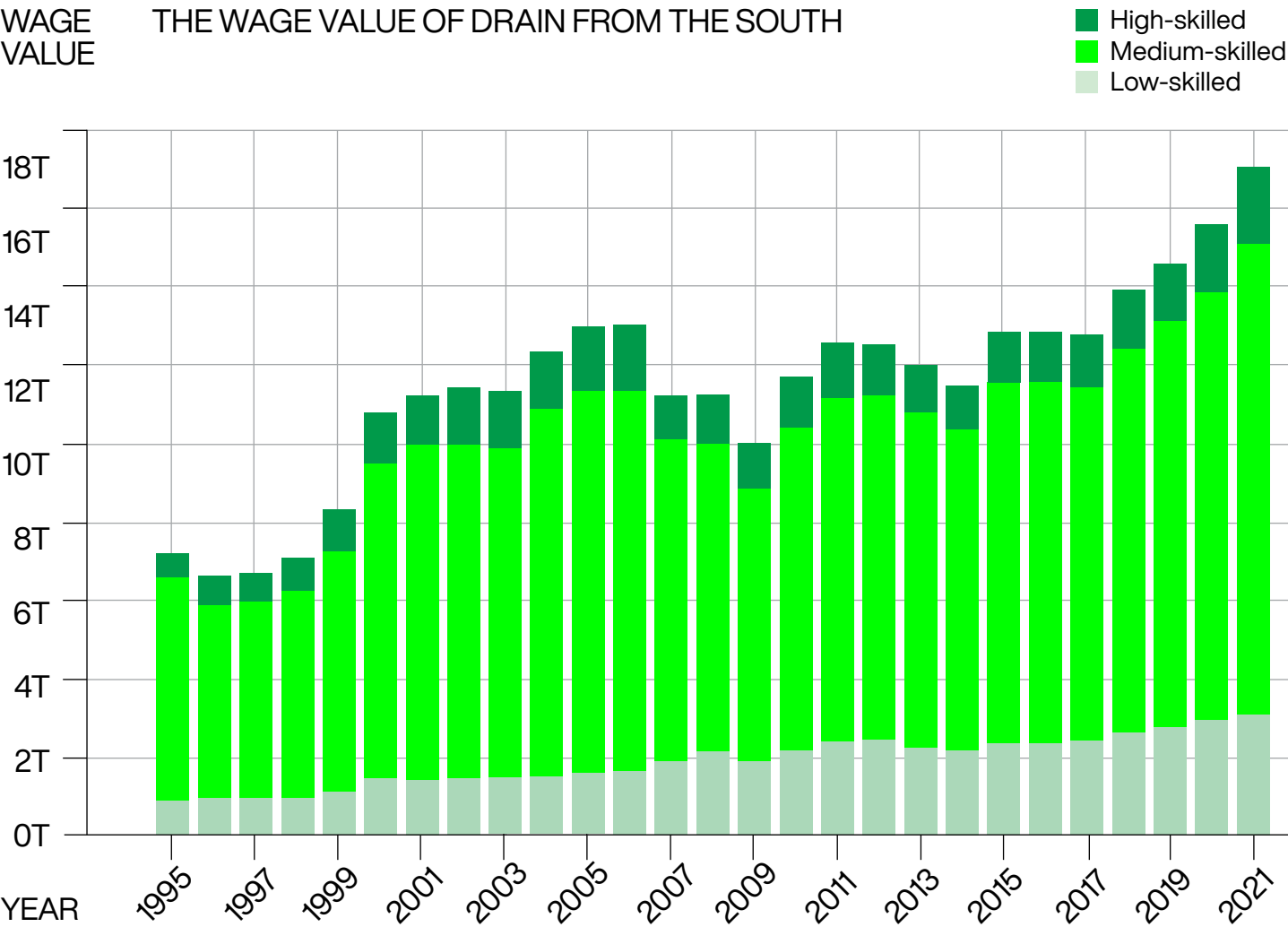
# Global North nations appropriate trillions in unpaid labor from Global South annually

Recent studies question the belief that free trade universally benefits all participants, highlighting that global trade can be significantly imbalanced. Using input-output analysis to track flows of embodied labor from 1995 to 2021, the study shows that in 2021 the global North net-appropriated 826 billion hours of labor from the global South across all sectors and skill levels. Translating this labor into monetary terms yields a value of €16.9 trillion at Northern wage rates. This

transfer doubles the labor available for consumption in wealthy nations while depleting the South’s capacity to invest in local human needs and development. Southern workers, who contribute 90% of global labor, receive only 21% of global income. The findings attribute this imbalance largely to systematic wage disparities, with Southern wages 87–95% lower than those in the North for equivalent work. The results call for urgent industrial and structural reforms to empower the South and rebalance global economic relations.

Hickel, J., Hanbury Lemos, M., & Barbour, F. (2024). Unequal exchange of labor in the world economy. *Nature Communications*, 15(1), Article 6298

<https://doi.org/10.1038/s41467-024-49687-y>





## SA.3

# Developing countries can adapt to climate change effectively using nature-based solutions

Evidence on the effectiveness of climate change adaptation interventions in low—and middle— income countries has been rapidly growing in recent years, particularly in the agricultural and coastal sectors. ICTA-UAB researchers systematically review such mounting evidence and find that nature-based solutions for adaptation have the strongest positive effects for both the coastal and agricultural sectors. They also show that social and behavioral interventions in the coastal sector show negative effects on development-related outcomes. Taken together, results highlight the opportunity for development and climate adaptation

practitioners to promote adaptation interventions with co-benefits beyond risk reduction, particularly in the case of nature-based solutions.

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Villamayor-Tomás, S., Bisaro, A., Moull, K., Albizua, A., Mank, I., Hinkel, J., Leppert, G., Noltze, M. (2024). Developing countries can adapt to climate change effectively using nature-based solutions. *Communications Earth and Environment*, 5(1), Article 214.

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<https://doi.org/10.1038/s43247-024-01356-0>

© Amunga Esuchi-Vi-skogen (IUAF)



© Marius Dobilas-Wellbeing International





## SA.4

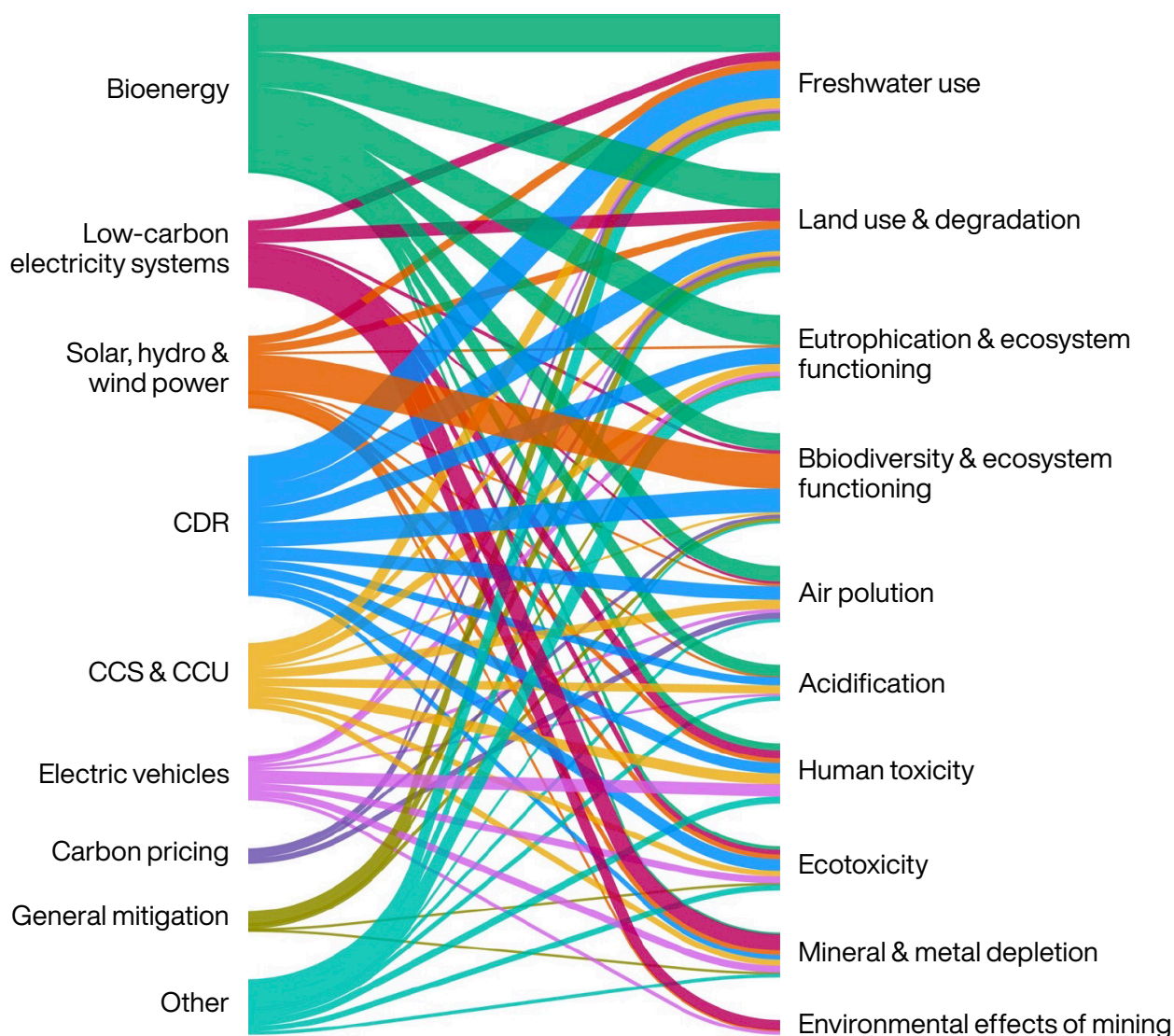
# Patterns of environmental problem shifting due to climate mitigation

Policies and strategies for climate change mitigation must anticipate the risk of environmental problem shifting (EPS). This study offers a systematic mapping of EPS. Based on screening a total of 10,997 articles, we identify 506 relevant studies on EPS of which 311 are empirical, 47 are conceptual-theoretical, and 148 are synthetic studies or reviews of a particular mitigation option. Analysis reveals 128 distinct shifts from 22 categories of mitigation options to 10 environmental impacts.

The mitigation options most commonly studied are bioenergy [75 studies] and carbon dioxide removal [61] while the most frequent environmental shifts are to freshwater use [101] and land use [85]. Some studies systematically overestimate EPS by not accounting for the environmental benefits of reduced climate change. We therefore propose to conceptually clarify the different ways of estimating EPS by distinguishing between gross, net, and relative shifting.

Wood Hansen, O., van den Bergh, J. (2024). Environmental problem shifting from climate change mitigation: A mapping review. *PNAS Nexus*, 3(1), Article pgad448.

<https://doi.org/10.1093/pnasnexus/pgad448>



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# NEW PROJECTS IN 2024

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# 8

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ICTA-UAB funding comes from a variety of sources. Most projects are funded by EU collaborative or European-Council projects, with a substantial part of the institute's research budget also coming from competitive calls launched by Spanish, Catalan, and Barcelona public funding agencies ●



# PROJECTS AWARDED DURING 2024

## (chronological order by starting date)

Study of the content of airborne pollens and spores from two sampling stations of the Xarxa Aerobiològica de Catalunya (XAC), in Camp de Tarragona and in Terres de l'Ebre 2024.

Jordina Belmonte Soler

Diputació de Tarragona: 15.000 €  
01/01/2024 → 31/12/2024

PUREEF-Y: Past, present, and future status and mitigation for Cyprus shallow-water reef biodiversity and functioning under global change.

Patrizia Ziveri

European Commission: 385.012,50 €  
01/07/24 → 30/06/27

BICIZEN: Una plataforma col·laborativa per ciutats més ciclables.

Jordi Honey-Rosés

Movement Barcelona 2005 S.L.: 3.000 €  
19/03/24 → 31/03/24

IMBRACE: Embracing Immigrant Knowledges for Just Climate Health Adaptation.

Panagiota Kotsila

European Commission: 1.985.270,00 €  
01/09/24 → 31/08/29

SPORE-MED: Sustainable upgraded wwtps for resource recovery, water reuse and health surveillance in the Mediterranean region.

Laura Talens Peiró and Anna Petit Boix

European Commission: 240.000 €  
01/06/24 → 31/05/27

VIALE UNKNOWNNS: Sustainable and inclusive coexistence in the city.

Maria del Mar Griera Llonch (Sociology Dep.) and Amalia Calderón Argelich

European Commission: 25.133,78 €  
01/09/24 → 31/08/26

STOPPING BIKE THEFT

Jordi Honey-Rosés

European Commission: 10.000 €  
19/06/24 → 18/01/25

Irrigo: Characterizing socio-ecological and technological transformation across the Spanish irrigation sector.

Sergio Villamayor-Tomás

Ministerio de Ciencia e Innovación: 143.750 €  
01/09/24 → 31/12/28



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GASPOF: Pervasive gas sensing using optical fibers, as part of the communication network of the future.

**Gara Villalba Méndez**

European Commission: 239.000 €  
01/12/24 → 30/11/28

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COMMIT2GREEN: Participatory urban greening and renaturing toward climate neutrality and resilience in European cities

**Johannes Langemeyer**

European Commission: 424.250 €

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REVALUE-PG: Extractive Expansion and Antisystemic Environmentalism: A Socio-ecological Class Perspective to the Politics of Postgrowth and Revaluation of Nature

**Giorgos Kallis**

European Commission: 181.153 €  
01/03/25 → 28/02/27

---

PROPS: Promoting Resilience to plant disease: Understanding vulnerability and adaptation to Xylella fastidiosa.

**Esteve Corbera Elizalde**

European Commission: 226.441 €  
01/09/25 → 29/02/28

## Infrastructure

Beta counter and complementary microscope parts

**Patrizia Ziveri**

UAB: 42.521 €  
26/04/24 → 30/06/25

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Porometer/Fluorimeter

**Xavier Gabarrell i Durany**

UAB: 12.750 €  
26/04/24 → 30/06/25

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## Individual fellowships and mobility grants

ICTA-UAB researchers at different career stages are funded by international, Spanish and Catalan research agencies.

## Senior

ICREA Senior 2024

Jason Hickel

Institució Catalana de Recerca i Estudis Avançats  
01/10/24 →

## Postdoc

Beatriu de Pinós 2023

Ksenija Hanacek

Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR): 152.864,70 €  
31/12/24 → 30/12/2

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Beatriu de Pinós 2023

Brototi Roy

Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR): 152.864,70 €  
31/12/24 → 30/12/27

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Beatriu de Pinós 2023

Ryan Unks

Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR): 152.864,70 €  
01/04/25 → 31/03/28

Juan de la Cierva 2023

Samuel Nel-lo Deakin

Ministerio de Ciencia e Innovación: 72.000 €  
01/12/24 → 30/11/2

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Juan de la Cierva 2023

Sergio Ruiz Cayuela

Ministerio de Ciencia e Innovación: 72.000 €  
01/07/25 → 30/06/2

---

Juan de la Cierva 2023

Jocelyne Shimin Sze

Ministerio de Ciencia e Innovación: 72.000 €  
01/09/25 → 31/08/27

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Junior leader “la Caixa” 2024

Montserrat Roca Martí

Fundación “la Caixa”: 297.900 €  
01/07/24 → 30/06/27

## Predoc

FI Joan Oró 2024

Sarah Bretschko

Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR): 73.341,40 €  
01/04/24 → 31/03/27

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FI Joan Oró 2024

Alexander de Tomás Pascual

Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR): 73.341,40 €  
01/07/24 → 30/06/27



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FI Joan Oró 2024

Andrea McIntosh

Agència de Gestió d'Ajuts Universitaris  
i de Recerca (AGAUR): 73.341,40 €  
01/07/24 → 30/06/27

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FI Joan Oró 2024

Qing Luo

Agència de Gestió d'Ajuts Universitaris  
i de Recerca (AGAUR): 73.341,46 €  
01/08/24 → 31/07/27

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Inphinit-Retaining 2024

Bruno Palombini Gastal

Fundación "la Caixa": 157.200 €  
10/10/24 → 09/10/28

## Mobility grants

Estancias breves FPU 2024

Julia Rodríguez Puig

Ministerio de Ciencia, Innovación  
y Universidades (MICIU): 4.740 €  
05/08/24 → 03/11/24

---

Estancias breves FPU 2024

Lucía Muñoz Sueiro

Ministerio de Ciencia, Innovación  
y Universidades (MICIU): 3.540 €  
01/09/24 → 30/10/24 (Renounced)

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Estancias breves FPU 2024

Mateo Sanclemente Crespo

Ministerio de Ciencia, Innovación  
y Universidades (MICIU): 4.560 €  
01/09/24 → 30/10/24

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## RESEARCH CONTRACTS

ICTA-UAB researchers have also received  
support from a variety of private and public  
agencies as well as foundations.

Climate Justice Ready Project

Isabelle Anguelovski

Northeastern University  
01/03/24 → 15/03/25

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Agreement on the Political Ecology  
of Global Environmental Change

Joan Martínez-Alíer

China Agricultural University  
04/03/24 → 03/03/25

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Study on the recycling of nutrients  
and carbon and soil health in periurban  
agricultural land

Gara Villalba Méndez

Universitat de Barcelona (UB)  
05/03/24 → 30/06/25

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IVU: Universitat Oberta  
de Catalunya (UOC)

Margarita Triguero-Mas

22/03/24 → 21/03/27

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Joint Controllers in relation to the  
research project "Food Systems in  
European Cities-FoodE"

Xavier Gabarrell i Durany

Alma Mater Studiorum-Università di Bologna  
11/04/24 → 10/04/34

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Global Research Network on Climate-Induced Displacement, Resettlement, Adaptation, and Resilience for Cities

Isabelle Anguelovski

University of Toronto  
01/05/24 → 21/03/27

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Service for the analysis of pollen and fungal spore filters for the Izaña Atmospheric Research center

Jordina Belmonte Soler

Agencia Estatal de Meteorología (AEMET)  
01/05/24 → 30/04/27

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Boosting Buildings Climate Resilience Through Water-Foodenergy Nexus Based Solutions (WEF4Build)

Xavier Gabarrell i Durany

Universitat Politècnica de Catalunya  
27/05/24 → 15/03/26

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Consortium for research project in water management

Sergio Villamayor-Tomás

Institut de Recerca i Tecnologia Agroalimentàries IRTA  
25/06/24 → 24/06/27

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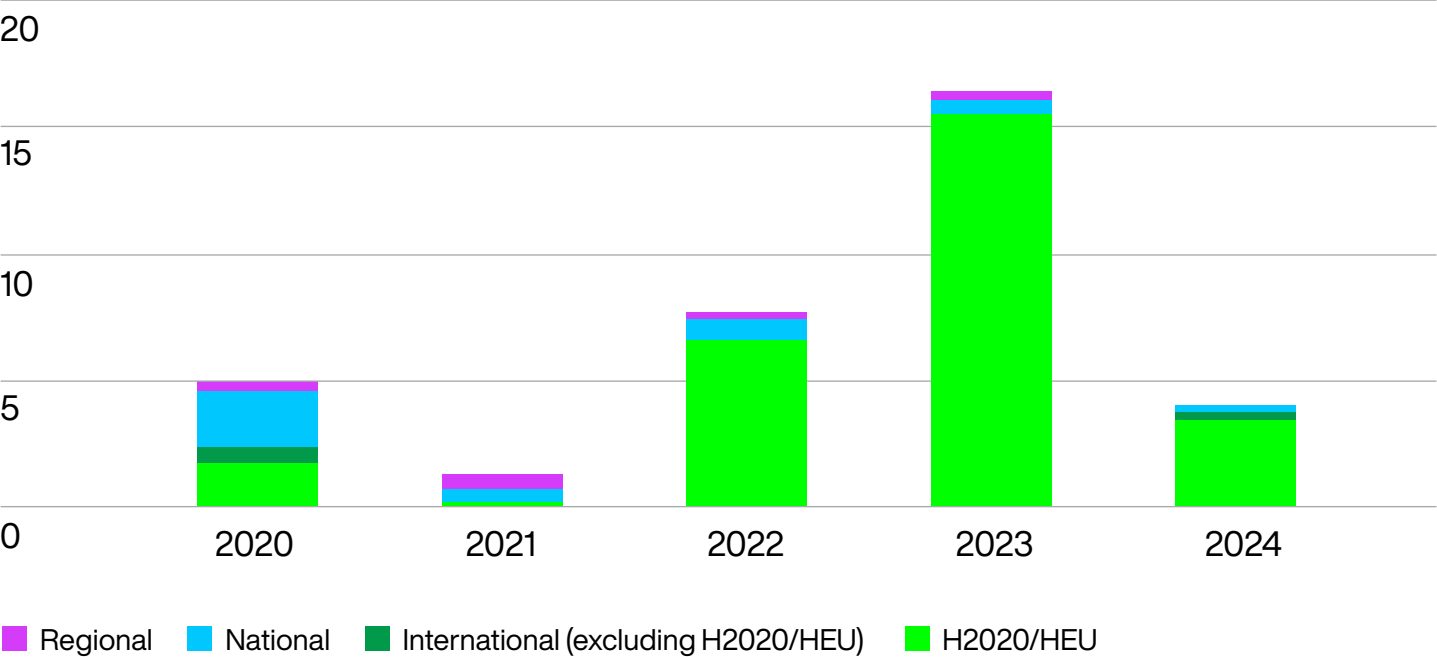
Evaluation of glucose measuring devices

Laura Talens Peiró

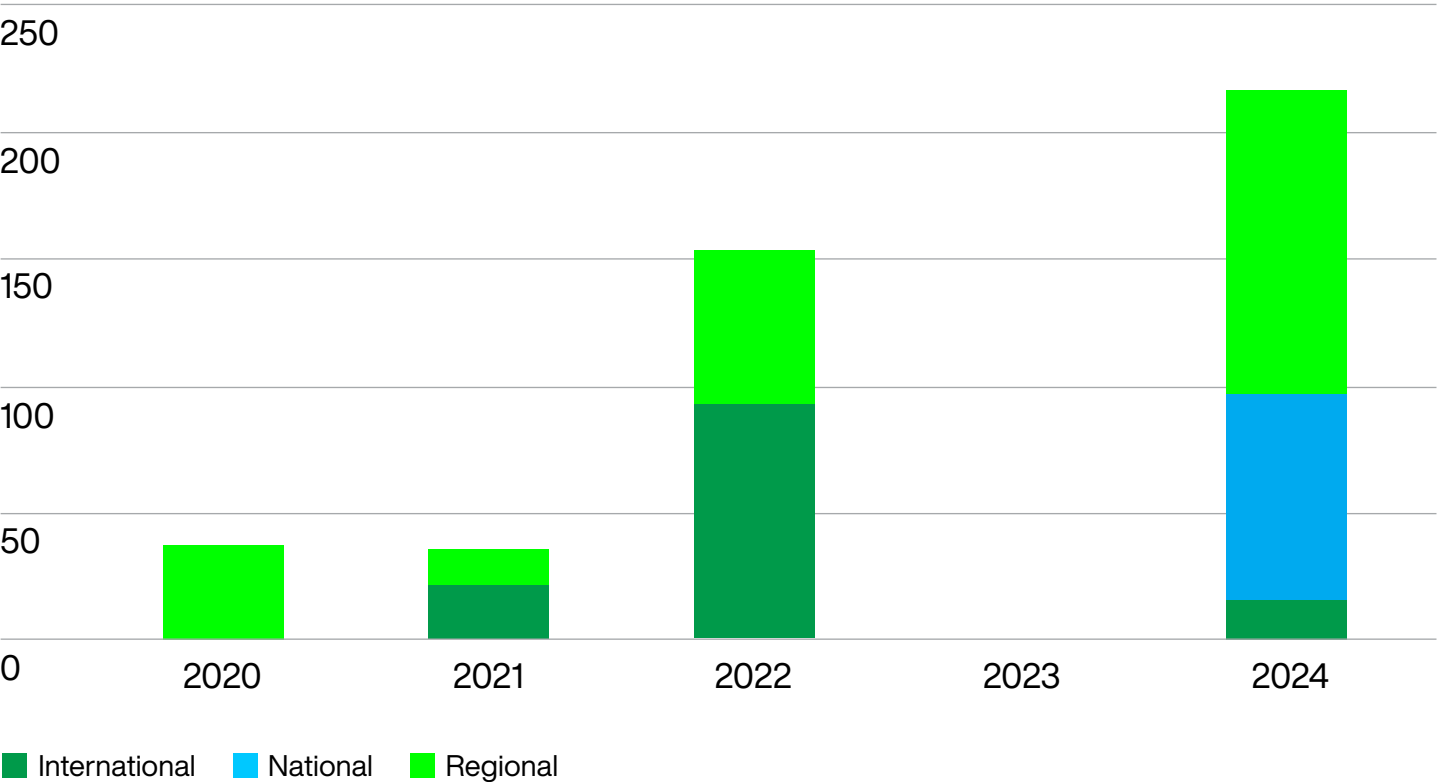
Instituto de Microelectrónica de Barcelona  
01/12/24 → 31/12/24

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# PUBLIC FUNDING Competitive sources (M€)



# PUBLIC FUNDING Non-competitive sources (k€)





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# PUBLICATIONS

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## ARTICLES

ICTA-UAB's research is published in leading, high-impact-factor journals ● 23 articles were published in Nature and Science-related journals, as well as in *Global Change Biology* among others ● Overall, about 227 scientific articles were published in peer-reviewed journals in 2024, across more than 150 different scientific journals ● Over 42% of the articles appeared in journals with an impact factor of five or higher ● Importantly, 79% of all publications were made available through Open Access channels, enhancing the visibility and accessibility of the institute's scientific output ●

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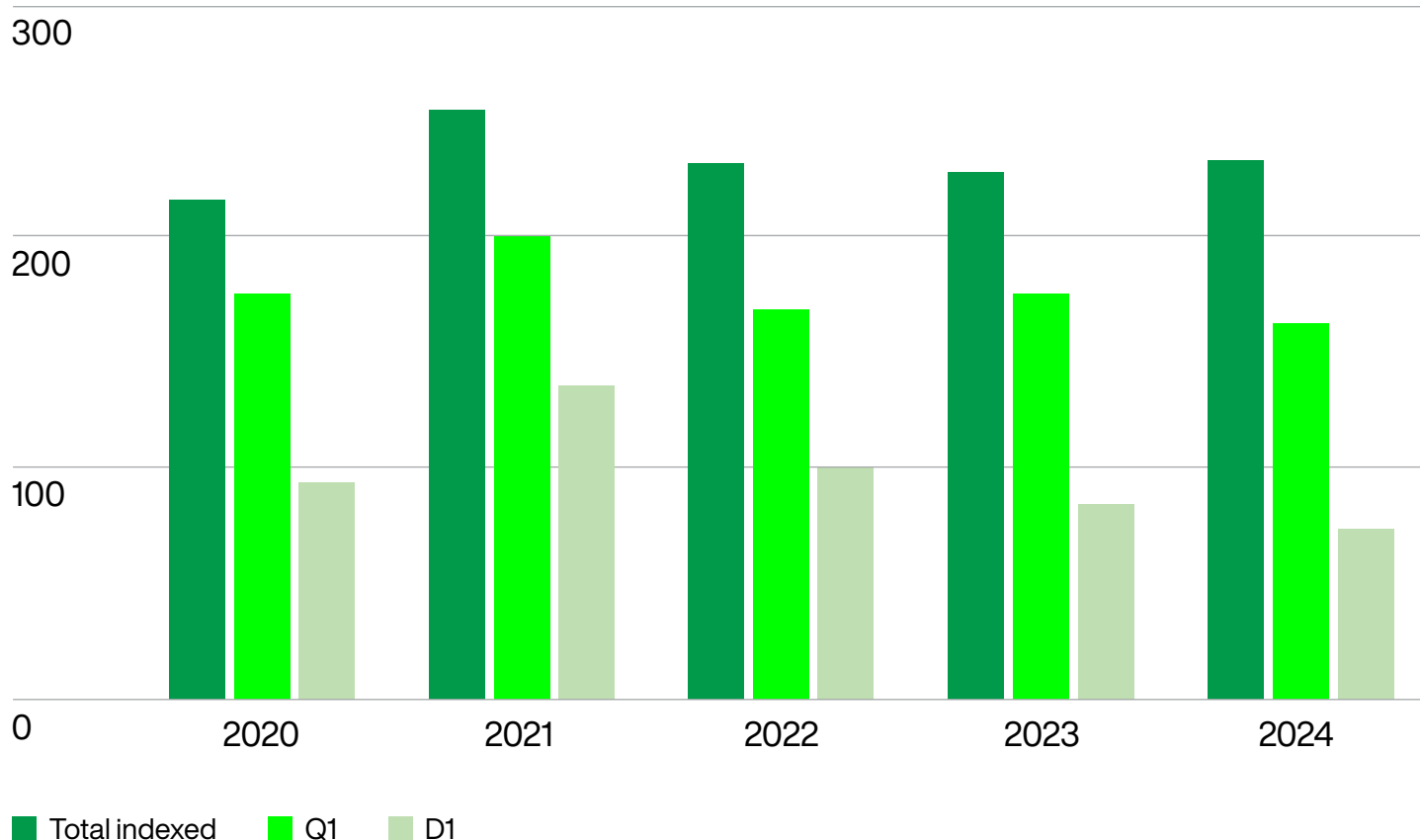
**227** Indexed articles

**155** Articles published in 1st quartile

**68** In 1st decile

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## PEER-REVIEW PUBLICATIONS





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## SELECTED PUBLICATIONS IN INDEXED JOURNALS

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Cole, H. V. S., Triguero-Mas, M., Valdivia, B., Cuenca, VC., Anguelovski, I., Calderón-Angelich, A., Baró, F. (2024)

Shifting perceptions of green and blue spaces during the COVID-19 pandemic in gentrifying neighbourhoods: Experiences of inclusion and exclusion by women and non-binary residents.

*People and Nature*, 6 (6), 2494-2513

<https://doi.org/10.1002/pan3.10722>

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Hanson, M. A., Barreiro, P. G., Crosetto, P., Brockington, D. (2024)

The strain on scientific publishing.

*Quantitative Science Studies*, 5 (4), 823–843

<https://direct.mit.edu/qss/article/5/4/823/124269/>

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Kallis, G., Mastini, R., Zografos, C. (2024)

Perceptions of degrowth in the European Parliament.

*Nature Sustainability* 7, 64–72

<https://doi.org/10.1038/s41893-023-01246-x>

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Arosemena, J. D., Toboso-Chavero, S., Adhikari, B., Villalba, G. (2024)

Closing the nutrient cycle in urban areas: The use of municipal solid waste in peri-urban and urban agriculture.

*Waste Management*, 183, 220-231

<https://doi.org/10.1016/j.wasman.2024.05.009>

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Jiménez-Espejo, F. J., Munuera, M., Teruel, O., Albert, R. M., Villanueva, J., Davtian, N., Finlayson, S., Lozano Rodríguez, J. A., Belaústegui, Z., Cura, P., García-Alix, A., Belo, J., Menez, A., Martínez-Ruiz, F., Rodríguez-Vidal, J., Camuera, J., Martrat, B., Giles-Guzmán, F., Jiménez-Moreno, G., et al. (2024)

A Neanderthal's specialised burning structure compatible with tar obtention.

*Quaternary Science Reviews*, 346, Article 109025

<https://doi.org/10.1016/j.quascirev.2024.109025>

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Pezo-Lanfranco, L., Mut, P., Chávez, J., Fossile, T., Colonese, A. C., Fernandes, R. (2024)

South American Archaeological Isotopic Database, a regional-scale multi-isotope data compendium for research

*Scientific Data*, 11 (1), Article 336

<https://doi.org/10.1038/s41597-024-03148-9>

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Mikhail Sofiev, M., Palamarchuk, J., Kouznetsov, R., Abramidze, T., Adams-Groom, B., Antunes, C.M., Ariño, A.H., Bastl, M., Belmonte, J., Berger, U.E. et al. (2024)

European pollen reanalysis, 1980–2022, for alder, birch, and olive.

*Scientific Data*, 11 (1), Article 1082

<https://doi.org/10.1038/s41597-024-03686-2>

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Roig-Costa, O., Miralles-Guasch, C., Marquet, O. (2024)

Shared bikes vs. private e-scooters. Understanding patterns of use and demand in a policy-constrained micromobility environment.

*Transport Policy*, 146, 116-125

<https://doi.org/10.1016/j.tranpol.2023.11.010>

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Pérez Sánchez, L. À. Velasco-Fernández, R., Giampietro, M. (2024)

Analyzing the energy metabolism of the automotive industry to study the differences found in this sector across EU countries.

*Energy*, 296, Article 130855

<https://doi.org/10.1016/j.energy.2024.130855>

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Roca-Martí, M., Puigcorbé, V. (2024)

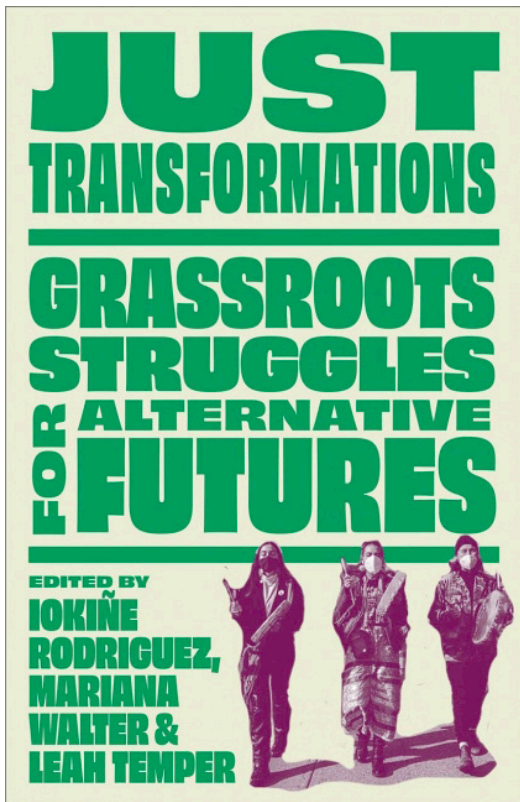
Combined Use of Short-Lived Radionuclides ( $^{234}\text{Th}$  and  $^{210}\text{Po}$ ) as Tracers of Sinking Particles in the Ocean.

*Annual Review of Marine Science*, 16, 551-575

<https://doi.org/10.1146/annurev-marine-041923-013807>

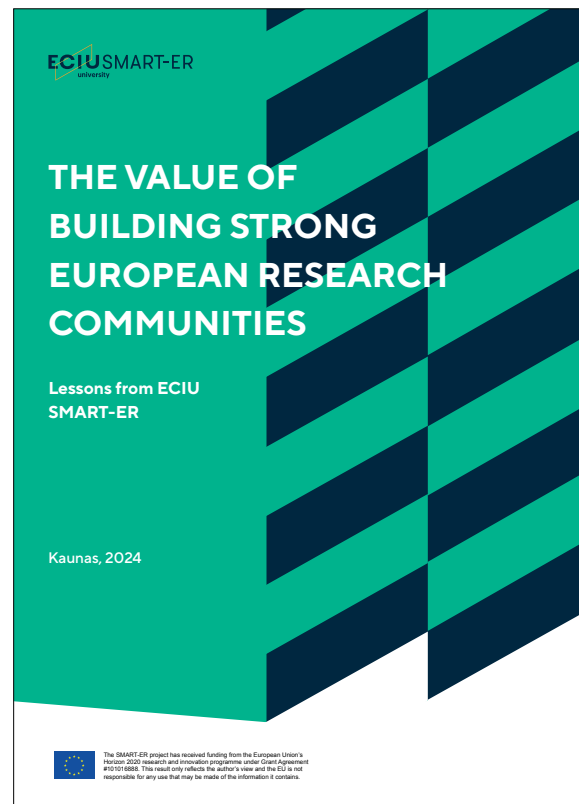
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# BOOKS



**JUST TRANSFORMATIONS GRASSROOTS STRUGGLES FOR ALTERNATIVE FUTURES**  
Iokiñe Rodríguez, Mariana Walter, Leah Temper  
(Pluto Press, 2024)

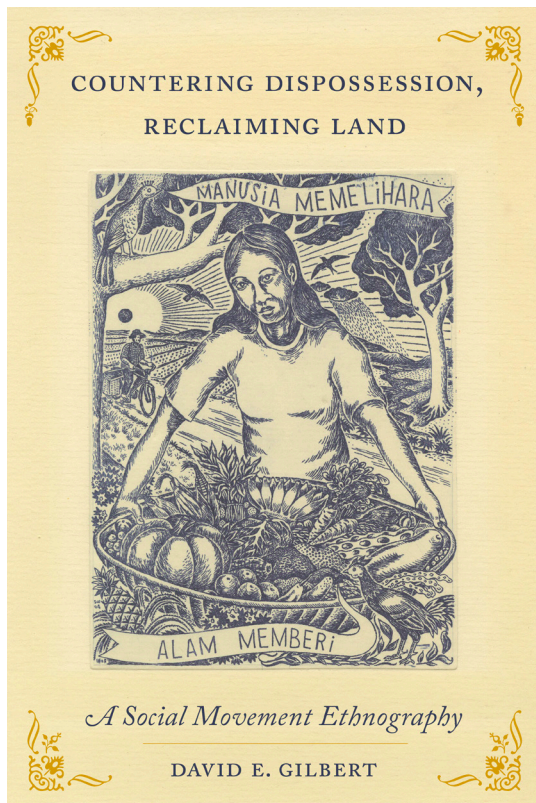
*Just Transformations: Grassroots Struggles for Alternative Futures* examines community-led efforts worldwide to achieve social justice and ecological sustainability. It serves as a toolkit for scholar-activists aiming to build transformative visions with communities, focusing on changes that communities themselves are striving to produce.



**THE VALUE OF BUILDING STRONG EUROPEAN RESEARCH COMMUNITIES**  
**LESSONS FROM ECIU SMART-ER**  
Begoña Miñarro, Anna Petit, Xavier Gabarrell  
(Kaunas University of Technology, 2024)

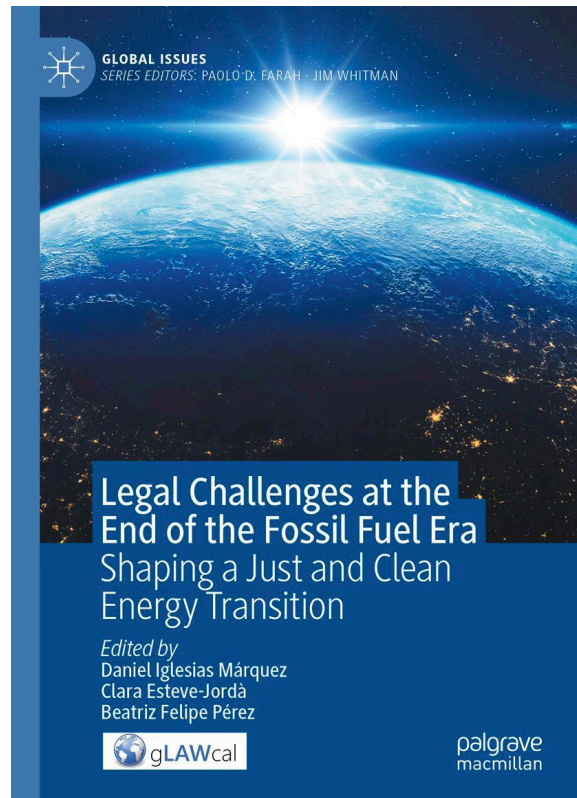
Solving current global challenges such as climate change or social inequalities demands the involvement of all actors in our societies. An education, research and innovation system which values and integrates the knowledge and views from science and society is thus essential.





**COUNTERING DISPOSSESSION,  
RECLAIMING LAND: A SOCIAL  
MOVEMENT ETHNOGRAPHY**  
David Gilbert  
(University of California Press, 2024)

*Countering Dispossession, Reclaiming Land: A Social Movement Ethnography* explores how marginalized communities resist land dispossession. Through ethnographic study, it examines grassroots movements reclaiming land rights, highlighting strategies, struggles, and successes in their fight for social justice and equity.



**LEGAL CHALLENGES AT THE END  
OF THE FOSSIL FUEL ERA**  
Daniel Iglesias, Clara Esteve-Jordà,  
Beatriz Felipe  
(Springer, 2024)

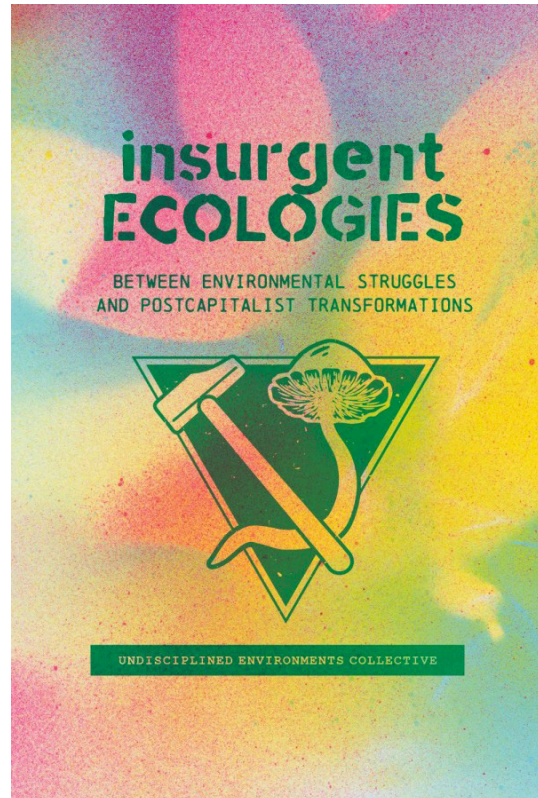
*Legal Challenges at the End of the Fossil Fuel Era* analyzes the legal obstacles and frameworks as societies transition from fossil fuels to sustainable energy. It examines policies, regulations, and litigation shaping this critical shift towards a greener future.



**DECRECIMIENTO: VOCABULARIO PARA UNA NUEVA ERA.**

Edición ampliada Latinoamérica  
Federico Demaria, Giacomo D'Alisa,  
Giorgos Kallis  
(Editorial Icaria, 2024)

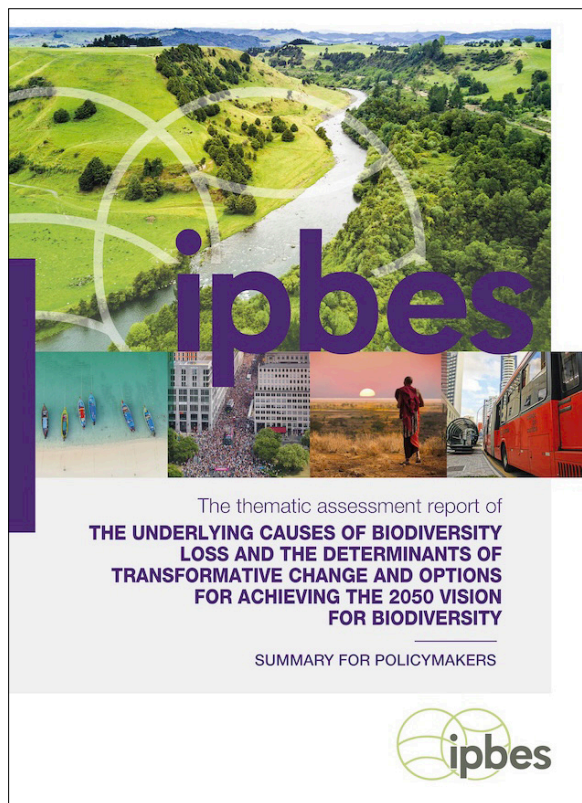
The expanded Latin American edition of *Decrecimiento: Vocabulario para una nueva era* explores the concept of degrowth as a multifaceted critique of economic growth paradigms. It presents interdisciplinary contributions from fields like ecological economics, feminist economics, and political ecology, emphasizing collaborative alternatives such as commons, conviviality, and social solidarity for sustainable, equitable futures.



**INSURGENT ECOLOGIES BETWEEN ENVIRONMENTAL STRUGGLES AND POSTCAPITALIST TRANSFORMATIONS**  
Panagiota Kotsila  
(Undisciplined Environments Collective.  
Fernwood Publishing, 2024)

*Insurgent Ecologies* explores the critical ecological challenges of our time, positioning capitalism as a driver of social and environmental crises. This book examines how radical environmental movements and local struggles are contributing to systemic change, fostering solidarity, and creating transformative socio-ecological justice projects. Its essay offers insights into sovereignty, land climate, feminisms and labor, emphasizing the Global South and North's roles in postcapitalist transformations.





## IPBES TRANSFORMATIVE CHANGE ASSESSMENT: SUMMARY FOR POLICYMAKERS

Karen O'Brien, Lucas Garibaldi, Arun Agrawal, Elena Bennett, Oonsie Biggs, Rafael Calderón Contreras, Edward Carr, Niki Frantzeskaki, Hannah Gosnell, Janita Gurung, Sergio Lambertucci, Julia Leventon, Chuan Liao, Victoria Reyes-García, Lynne Shannon, Sebastian Villasante, Fern Wickson, Yves Zinngrebe, Laurence Perianin (IPBES secretariat, 2024)

Prepared over three years by more than 100 leading experts from 42 countries from all regions of the world, including Victoria Reyes García, the report explains what transformative change is, how it occurs, and how to accelerate it for a just and sustainable world.



## EL FIL VERD I ROIG

Sergi Cot, Marta Guillaumes, Joan Martínez-Alier, Giacomo D'Alisa, Borja Nogué (Manifest Llibres, 2024)

*El fil verd i roig* is a collaborative work coordinated by Sergi Cot and Marta Guillaumes, featuring contributions from 34 authors. This book examines ecological strategies and traditions in Catalonia, aiming to cultivate a radically different future through social and national emancipatory environmentalism.



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# INSTITUTIONAL COMMITMENTS

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## GENDER EQUITY

In July 2022, ICTA-UAB deployed its first Gender Equity Policy, framed within the institute's commitment to advancing gender equity at all levels ● This includes actions to strengthen the presence and role of female and non-binary scientists at the institution, make visible their research contributions, and enable the development and implementation of protocols to address gender-based discrimination and sexual harassment ● These efforts align with the broader institutional frameworks of the Universitat Autònoma de Barcelona (UAB) and ICTA-UAB's María de Maeztu Program of Excellence ●

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# GENDER EQUITY POLICY

ICTA-UAB's Gender Equity Policy reflects its ongoing commitment to advancing gender equity at all levels.

## STRATEGIC LINES

- ① Representation of female and non-binary scientists
- ② Working conditions and work-life balance
- ③ Gender awareness
- ④ Non-sexist and inclusive language
- ⑤ Prevention of gender-based discrimination and harassment

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# GENDER EQUITY POLICY AND STRATEGIC LINES

ICTA-UAB's Gender Equity Policy, informed by a Gender Equity Audit conducted by Col·lectiu Punt6 in 2021, provides a roadmap for strengthening gender equity at all levels of the institute. This policy is structured around five strategic lines:

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## 1. Representation of female and non-binary scientists:

Ensuring fair representation of women and gender minorities across all professional categories and leadership positions.

## 2. Working conditions and work-life balance:

Assessing salary structures, career development opportunities, and policies supporting work-life balance.

## 3. Gender awareness:

Evaluating gender awareness and integration within all institutional policies.

## 4. Non-sexist and inclusive language:

Promoting inclusive language and increasing the visibility of women and gender minorities in ICTA- UAB's internal and external communications.

## 5. Prevention of gender-based discrimination and harassment:

Developing mechanisms to prevent and address gender-based discrimination and harassment.

Each of these strategic lines is supported by a series of ongoing actions designed to create meaningful institutional change.



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# ETHICS OF CARE AND COMMUNITY WELLBEING

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## ICTA-UAB Culture Manifesto

In 2024, ICTA-UAB finalized and approved its *Culture Manifesto*, reaffirming its mission, values, and commitment to care practices. The manifesto includes actionable recommendations for all community members and is being implemented through dedicated research groups and committees.

## Ethics of Care

Gender Equity and Ethics of Care are tightly linked institutional priorities at ICTA-UAB, complementing UAB codes and practices aimed at fostering inclusivity, diversity, and wellbeing in academia. In 2023, ICTA-UAB initiated a collaborative process supported by external facilitators to renew its vision, mission, and values, laying the groundwork for a shared set of care practices. This process was concluded in 2024 with the approval of the *Culture Manifesto*.

## Welcome Materials and Community Building Events

Each year, ICTA-UAB updates its Welcome Guide to facilitate the transition and integration of new members across all career stages. In 2024, the guide was revamped to be more comprehensive and intuitive, addressing a greater diversity of needs and providing key information to help integrate new researchers and staff into the institute. Additionally, a dedicated *Onboarding Guide* was developed to assist PIs in welcoming new doctoral and postdoctoral researchers, introducing them to ICTA-UAB's research groups, norms, resources, and facilities.

Throughout the academic year, ICTA-UAB hosts a variety of scientific and social events to foster community and connection, including:

- Welcome Event at the beginning of the Fall.
- Winter and Summer Symposiums.
- Weekly coffee breaks hosted by research groups.

## ICTA-UAB CARES Group

The *CARES Group* is a voluntary initiative composed of PhDs, postdoctoral researchers, and senior staff. It provides peer support, addresses discrimination concerns, and fosters an inclusive research environment.

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# GENDER EQUITY AND CARE ACTIONS

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## Awards

ICTA-UAB Doctoral and Postdoctoral Prizes (Funded by the María de Maeztu Program) awarded in 2024 for work defended or published in 2023:

Best PhD Thesis Prize (2023): Awarded to Soledad Castro for a PhD thesis by a female researcher or with a gender/feminist focus.

Best Postdoctoral Article Prize (2023): Awarded to Dannieli Herbst for an article authored by a female researcher or focusing on gender/feminist studies.

## Awareness Campaigns and Events

ICTA-UAB organizes multiple events and initiatives to foster awareness and discussion around gender equity and care:

- Film Forum on Gender and Equity.
- ICTA-UAB Day of Women and Girls in Science (February 11, 2024): 2024 campaign titled “Women in Science: When Superpowers Are Real”.
- ICTA-UAB International Women’s Day 2024 Instagram campaign (#seacabo) (March 8, 2024): Giving women researchers and staff the chance to voice their opinions, experiences, and complaints about the unfair treatment of women in the workplace.

- ICTA-UAB CARES Meetings providing a platform for peer support.
- Culture Manifesto posters highlighting ICTA-UAB’s vision and core values as a permanent exhibition on the ground floor.
- Adherence to the SOMMa Manifesto for the Equitable Recognition of Women in Research.

## Institutional Representation and Advocacy

ICTA-UAB actively participates in broader gender equity initiatives at UAB and beyond:

- UAB Gender Equity Committees: ICTA-UAB is part of the broader UAB-wide initiative launched by the Observatori per a la Igualtat and co-coordinated by the Secretari General de la UAB to strengthen its anti-discrimination and harassment policies and procedures. It has been involved in working groups to renew and disseminate the updated (December 2022) UAB anti-harassment protocol.
- SOMMa Alliance Working Groups: Through the SOMMa alliance, ICTA-UAB supports best practices for gender equity and visibility of female scientists within Spain.
- Partnerships with Catalan Research Institutes (e.g., CRG, CREAF, ISGlobal), advocating for gender-equitable policies in funding and evaluation.

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# RESPONSIBLE TRAVEL STRATEGY

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ICTA-UAB has designed a responsible travel strategy with the aim of helping researchers at the center, as well as researchers from the rest of the UAB, to reduce the environmental impact of their research-related travels.

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# NEW COMPOSTING SYSTEM

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In November 2024, a new composting system was installed at ICTA-UAB to enhance the sustainable management of organic waste. This initiative has been done in collaboration with the research group GICOM of the Department of Chemical, Biological and Environmental Engineering and the support from the UAB OpenLabs. It aims to process kitchen waste from the building’s kitchen and agricultural waste from the urban labs located at the rooftop of ICTA-UAB. The system transforms organic waste into compost, which will be reused, promoting a circular economy approach. Over the coming months, data is being collected to monitor the system’s performance, optimize its operation, and evaluate the quality of the compost produced. This data will also serve educational and research purposes, involving students, researchers, and the broader university community. The installation serves as a living laboratory, promoting hands-on learning and real-world experimentation in waste management and ecological design.



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# AWARDS AND RECOGNITIONS

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**LEOPOLDO GERHARDINGER**  
 New member of the Steering Committee  
 of the Decade Coordination Office  
 “Connecting People and Ocean”

ICTA-UAB postdoctoral fellow Leopoldo Cavaleri Gerhardinger has recently been appointed to the Steering Committee of the UN Decade Coordination Office “Connecting People and Ocean”. He has also been nominated as a Fellow of the International Science Council (ISC).



**ISABELLE ANGUELOVSKI**  
 Selected by the U.S. government for  
 the First National Nature Assessment

ICTA-UAB researcher Isabelle Anguelovski was one of the authors selected for the first-ever National Nature Assessment (NNA1) in the United States.



**GEMMA MORELL DELGADO**  
 INPhINIT grant by the “la Caixa” Foundation

ICTA-UAB researcher Gemma Morell Delgado is one of the 105 scientist who will develop their projects in Spain and Portugal thanks to the 65 fellowships awarded in the framework of the doctoral INPhINIT program and the 40 of the postdoctoral Junior Leader program.



**UMBERTO LOMBARDO**  
 Recognized by the Italian Embassy in Spain

ICTA-UAB researcher Umberto Lombardo was one of the scientists recognized by the Italian Embassy in Spain on the occasion of the annual celebration of the “Day of the Italian Researcher in Spain”, which took place on 23 May at the Embassy’s headquarters in Madrid.





**SOLEDAD CASTRO VARGAS AND  
DANNIELI HERBST**  
ICTA-UAB Best Prizes awarded to female  
postdoctoral researchers

Soledad Castro Vargas and Dannieli Herbst are the two ICTA-UAB female postdoctoral researchers awarded in the second edition of the ICTA-UAB Best Prizes, organized as part of the institute's Gender Policy.



**SARA BRETSCSKO, ANDRÉ COLONESE  
AND MIQUEL SIERRA MONTOYA**  
Prizes of the 3rd Micro-stories Competition  
Diada de Sant Jordi

The winning works were "A friend beast" by Sarah Bretschko, "ICTA 2034", by André Colonese and "Eco" & "A contrarrellotge" by Miquel Sierra Montoya.



**THE BICIZEN PLATFORM WINS  
THE 2023 BICIMPULS AWARD**

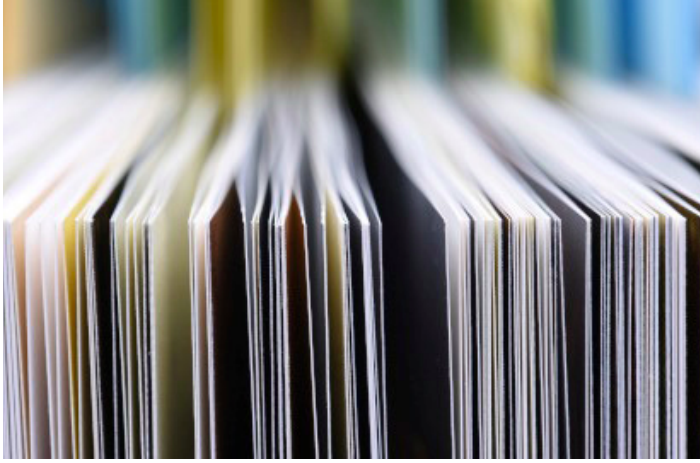
The collaborative platform BiciZen, promoted by ICTA-UAB, has been awarded the Bicimpuls Award 2023 by the Barcelona Metropolitan Area, which aims to recognize initiatives that promote the use of bicycles in the metropolis.



**WINNERS OF THE 8TH ENVIRONMENTAL  
SCIENCE AWARDS CELEBRATING  
COAMB'S 20TH ANNIVERSARY**

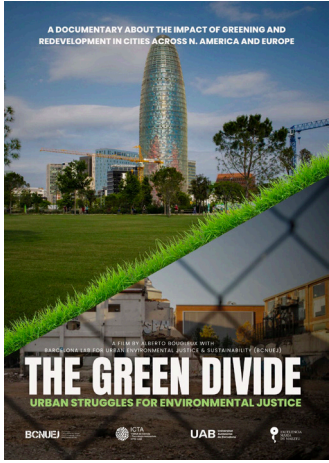
Research activity: "Surfing for Science. A citizen science project that allows quantifying and characterizing floating microplastics in the sea in Catalan bathing areas" by Liam de Haan. The award was delivered by Isabel Pont Castejón, ICTA-UAB's director.





## TWELVE ICTA-UAB RESEARCHERS, AMONG THE MOST INFLUENTIAL IN THE WORLD

The latest edition of the ranking of the researchers with the greatest scientific impact in the world, published by Stanford University, places twelve ICTA-UAB researchers among the 2% of the most influential scientists. The ranking includes 85 scientists from the UAB. The list is based on citations from 2022, updated to the end of 2023.



## ICTA-UAB FILM THE GREEN DIVIDE, SELECTED FOR THE SUNCINE FESTIVAL

The film The Green Divide, produced by the Barcelona Lab for Urban Environmental Justice and Sustainability at ICTA-UAB, is one of the feature-length documentaries presented at the 31st edition of SUNCINE (International Environmental Film Festival), which was held in Barcelona and Calafell from 1 to 9 November 2024.



## ICTA-UAB RECEIVES THE MARÍA DE MAEZTU EXCELLENCE ACCREDITATION

Funded under the framework of the Barcelona Science Plan of the Barcelona City Council, in collaboration with the Fundació “la Caixa”, the project tackles nutritional and health poverty in the city of Barcelona.



## PLA BARCELONA CIÈNCIA DE L'AJUNTAMENT DE BARCELONA

Funded under the framework of the Barcelona Science Plan of the Barcelona City Council, in collaboration with the Fundació “la Caixa”, the project tackles nutritional and health poverty in the city of Barcelona.

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# POLICY AND SOCIETAL IMPACT

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# 12

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This section highlights some of the most important outreach and societal impact articles or activities developed under each of our research challenges (see section 5) ●





# OCEANS

## Women's voices enhance small-scale fisheries management

Chambon, M., Miñarro, S., Alvarez Fernandez, S. et al. A synthesis of women's participation in small-scale fisheries management: why women's voices matter. *Rev Fish Biol Fisheries* 34, 43–63 (2024).

Women make up 40% of the workforce in the small-scale fishing sector, but their participation is often overlooked. This is evidenced by a study carried out by the ICTA-UAB, which analyzes women's participation in small-scale fisheries management around the world and

identifies the related socio-cultural, environmental, and economic impacts.

The study, led by ICTA-UAB researcher Mouna Chambon, reviews 124 case studies spanning 51 countries. One key finding is that 40% of the selected studies did not provide information on the gendered dimensions of SSF management, highlighting an important dearth of gender-disaggregated data in the fisheries literature. Analyzing the rest of the studies that detailed women's participation in SSF management, the research team found that women did not participate actively in management processes in 80% of the case studies.

<https://doi.org/10.1007/s11160-023-09806-2>



Swahili fisherwoman in Kenya

© Mouna Chambon

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# Migrating is not enough for modern planktonic foraminifera in a changing ocean

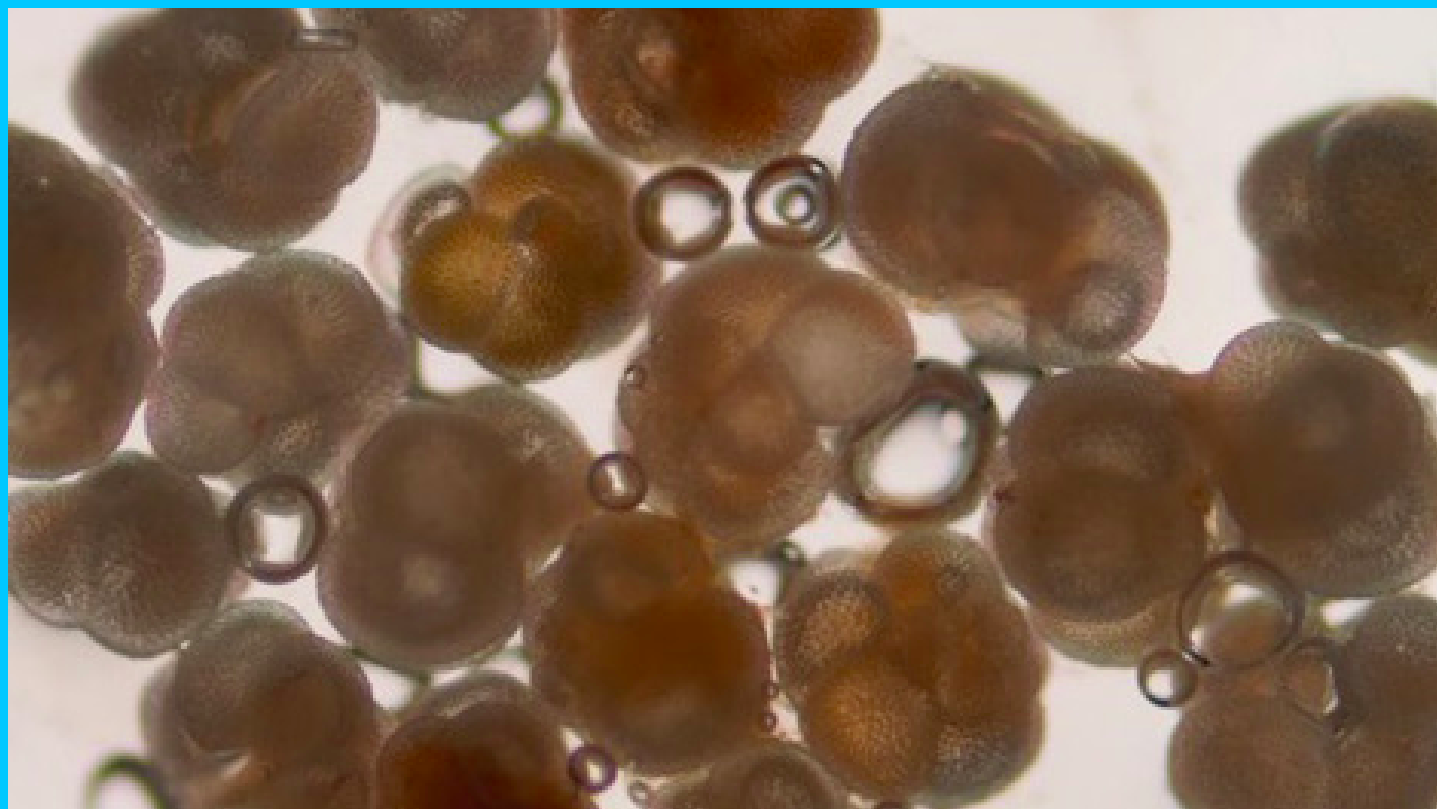
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Chaabane, S., de Garidel-Thoron, T., Meilland, J., Sulpis, O., Chalk, T. B., Brummer, G.-J. A., Mortyn, P. G., Giraud, X., Howa, H., Casajus, N., Kuroyanagi, A., Beaugrand, G., Schiebel, R. (2024). Migrating is not enough for modern planktonic foraminifera in a changing ocean. *Nature*, 636, 390-396.

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Many planktonic foraminifera species may face unprecedented environmental conditions by the end of this century, potentially surpassing their survival thresholds, according to a recent study involving ICTA-UAB researcher Graham Mortyn, recently published in the journal *Nature*.

<https://doi.org/10.1038/s41586-024-08191-5>



# LAND

## It's true, happiness doesn't cost much

Galbraith, E. D., Barrington-Leigh, C., Miñarro, S., Álvarez-Fernández, S., Attoh, E. M. N. A. N., Benyei, P., Calvet-Mir, L., Carmona, R., Chakauya, R., Chen, Z., Chengula, F., Fernández-Llamazares, Á., García-Del-Amo, D., Glauser, M., Huanca, T., Izquierdo, A. E., Junqueira, A. B., Lanker, M., Li, X., ... Reyes-García, V. (2024). High life satisfaction reported among small-scale societies with low incomes. *Proceedings of the National Academy of Sciences of the United States of America*, 121(7), e2311703121. Article e2311703121.

Many Indigenous peoples and local communities around the world are leading very satisfying lives despite having very little money. This is the conclusion of a study by ICTA-UAB, which shows that many societies with very low monetary income have remarkably high levels of life satisfaction, comparable to those in wealthy countries.

<https://doi.org/10.1073/pnas.2311703121>



© Joan de la Malla



# Rural development initiatives: Key to the necessary eco-social transformation

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Ugarte-Lucas, P., Sanjuan Agudelo, L. M., Villamayor-Tomas, S., Pérez-Sánchez, C., Navarro Álvarez, A. (2024). Transformación ecosocial en territorios rurales.

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Rural development initiatives have a great capacity to transform social, environmental and economic aspects, playing a fundamental role on the way to more sustainable and resilient societies.

<https://doi.org/10.5281/zenodo.14216763>





# CONSUMPTION

## 90% of textile waste generated by Catalonia's population ends up in landfill or incinerators

Morell-Delgado, G., Talens Peiró, L., Toboso-Chavero, S. (2024). Revealing the management of municipal textile waste and citizen practices: The case of Catalonia. *Science of the total environment*, 907, Article 168093.

A total of 90% of the municipal textile waste generated in Catalonia ends up in landfills or incinerators, according to a study by ICTA-UAB, which shows that only 10% of textile waste is collected separately. In the case of Catalonia, this percentage represented the management of 18,630 tons of clothing and other textile materials in 2020.

<https://doi.org/10.1016/j.scitotenv.2023.168093>





# DigiPrime project concludes with new developments on electronics and circularity

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Cruz Ugalde, J.D., Talens Peiro, L. (2024). Circularity scoring system: A product specific application to lithium-ion batteries of electric vehicles. *Resources, Conservation and Recycling*, 205, Article 107546.

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The DigiPrime project has come to an end with great advances in electronics and circularity. Its mission was to develop a digital platform for the circular economy, and our research group Sostenipra has contributed with case studies on the reuse of electric vehicle batteries and the remanufacturing of electronic and mechatronic devices for cars.

<https://doi.org/10.1016/j.resconrec.2024.107546>





# CITIES

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**The number of stolen bicycles in Barcelona increases by 34%, reflecting the vulnerability of this sustainable transport**

The number of bicycles stolen in Barcelona has increased by 34% over the past two years. This comes from a study conducted by ICTA-UAB, highlighting the vulnerability of those who choose sustainable and active transport in cities.

[Bike Theft Presentation](#)



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# The intersection of environmental justice and transportation emissions in Barcelona

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Cubells, J., Miralles-Guasch, C., Marquet, O. (2024). Traffic pollution as a privilege: An intersectional approach to environmental justice and transport emissions. *Transportation Research Part D: Transport and Environment*, 126, Article 104032.

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A study from the UAB sheds light on the political dimensions of air pollution in Barcelona city. The research demonstrates that power structures tied to patriarchy, racism, and ageism impact travel behavior and emissions of nitrogen oxides (NOx). The findings underscore the necessity for policies that address social inequalities to enhance air quality and advance environmental justice.

<https://doi.org/10.1016/j.trd.2023.104032>





# POLICIES

## Big oil companies continue to expand fossil fuel extraction worldwide

Llaveró-Pasquina, M., Navas, G., Cantoni, R., & Martínez-Alier, J. (2024). The political ecology of oil and gas corporations: TotalEnergies and post-colonial exploitation to concentrate energy in industrial economies. *Energy Research and Social Science*, 109, Article 103434.

Despite the growing social and political discourse in favor of energy transition and the greening of the industry, big oil companies continue to rely almost exclusively on fossil fuels to perpetuate their function of obtaining and concentrating energy.

<https://doi.org/10.1016/j.erss.2024.103434>





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## ERC report on transformative change highlights 10 ICTA-UAB projects

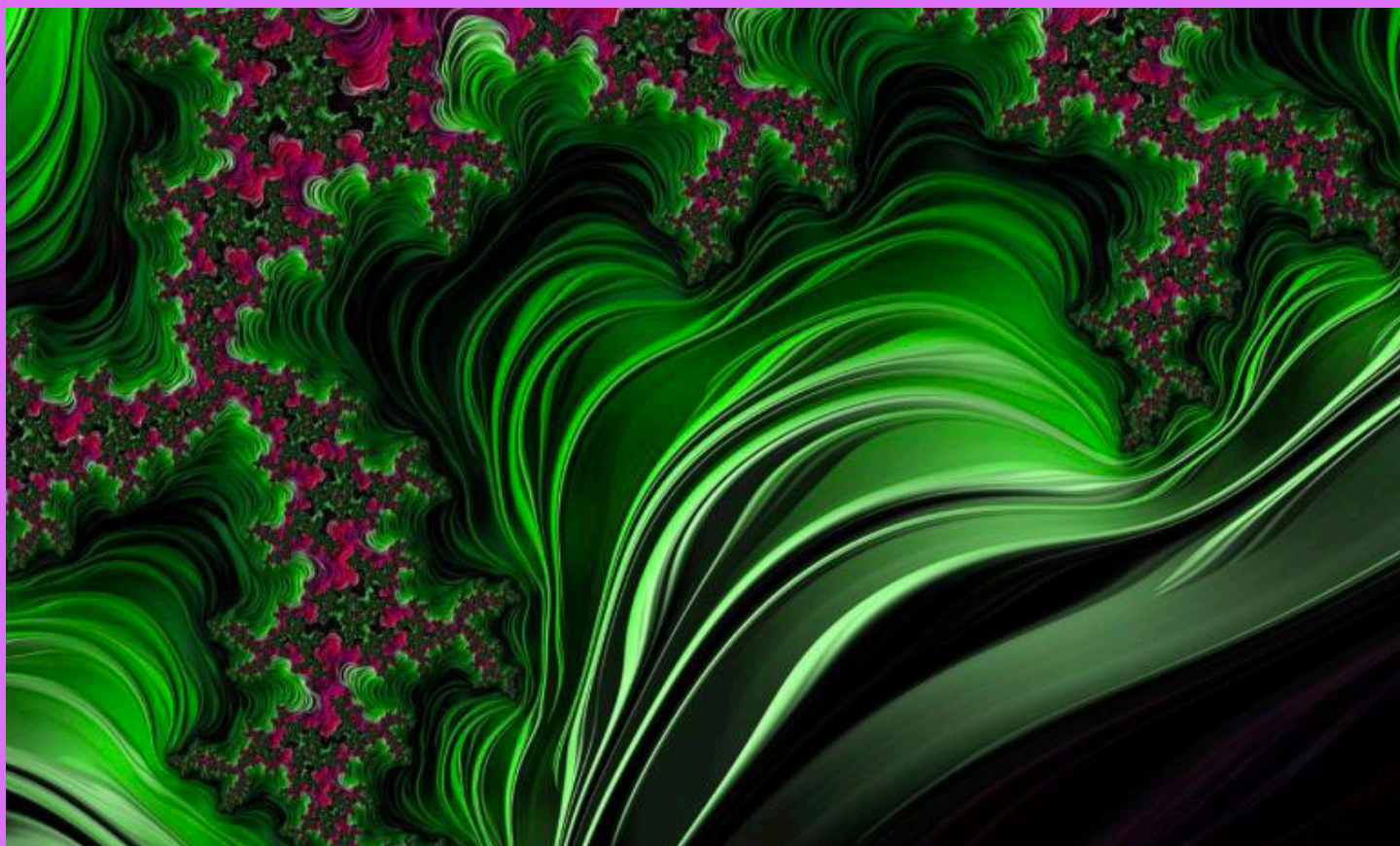
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ICTA-UAB projects highlighted in the report:

- LICCI. Indigenous peoples and local communities
  - EnvJustice. Justice and activism
  - REAL. New economic paradigms post-growth
  - TRADITION. Sustainable coastal zones
  - ATRAPA. Transport
  - GREENLULUS. Greening cities and inclusion
  - Climate JusticeReady. Greening cities and inclusion
  - URBAG. Urban agriculture
  - CLIMGROW. Economic systems
  - IEK-CHANGES. Indigenous peoples and local communities
- 

Ten projects led by ICTA-UAB researchers have been included in a new European Research Council (ERC) report, which analyzes 312 scientific projects from 22 countries addressing transformative change as a pathway toward a fair and green future. The report reflects on how to accelerate efforts to tackle climate change, biodiversity loss, pollution, and the growing social inequalities arising from these challenges.

[Transformative Change ERC Report](#)





# GROWTH VS CLIMATE CONFERENCE 2024

March 13-15, 2024. ICTA-UAB's Largest Event

ICTA-UAB hosted its first-ever scientific conference, bringing together 300+ participants—scientists, policymakers, activists, and journalists—to debate the tensions between economic growth and climate sustainability. The event reinforced ICTA-UAB's global presence and fostered cross-disciplinary collaboration ●



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## Opening Ceremony

### SPEAKERS:

Teresa Ribera (Deputy PM, Spain)  
Javier Lafuente (UAB Rector)  
Isabel Pont Castejón  
Marc Vilahur (Gov. of Catalonia)  
Esteve Corbera  
Yayo Herrero  
Alberto Garzón  
Eduard Loure  
Joan M. Alier  
Dan Brockington

### KEYNOTE:

*Just Ecological Transition:*

*Landing on a Planet with Limits*

Yayo Herrero, with live illustrations  
by Javier Royo

## Conference Highlights

- 177 speakers from around the world
- 31 panel discussions, 4 policy debates, 3 co-creation workshops
- 28 research posters + artistic collaborations & young climate influencers
- Key debate: Climate vs. Growth: What is Being Done? Moderated by Jason Hickel, featuring Rosa Martínez, Alberto Garzón, Wolfgang Cramer, Victoria Reyes-García & Jeroen van den Bergh
- Visuals: Live illustrations by artist Javier Royo

## Side Events

- “Darkwalk” initiative exploring urban lighting and environmental impact
- Screening of The Green Divide Documentary by BCNUEJ



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## Impact & Outreach

- 100,000+ social media views
- 50+ media outlets covered the event

## Closing Ceremony

- Talk by Olivia Mandle (environmental activist)
- Poetry slam by Adriana Bertrán

The conference strengthened ICTA-UAB's role in the global climate action debate, combining science, policy, and creative engagement to address urgent sustainability challenges.

During the Growth versus Climate Conference, the institute collected data from the participants to provide an estimate of the carbon footprint of transport and food.

The conference generated roughly 57.5 tons of CO<sub>2</sub>eq., of which 97% are attributed to conference travel and commuting. In this regard, 170 people out of the ca. 400 participants filled out a mobility survey. 31% of the participants who came from other countries or Spanish regions took the long-distance train. However, flights were responsible for 79% of the estimated 644,569 km travelled, which translated into 91% of the CO<sub>2</sub> eq. emissions of conference travel. The food served was 90% vegetarian, although 50% of the participants claimed to be omnivores. Leftovers were distributed in containers among the participants and catering staff.

Sostenipra, at the ICTA-UAB "Growth vs Climate" Conference

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# KNOWLEDGE TRANSFER AND SCIENTIFIC DISSEMINATION

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## Educational programs

ICTA-UAB teaches the Mad about Sustainability course at the Catalunya-La Pedrera Foundation From January to October 2024

Laura Talens participates in the «Smart education for innovative teaching» challenge at the University of Stavanger

31 January–2 February 2024

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Laura Talens participates in the program Joves per l’Emergència Climàtica, organized by Barcelona City Council

3 May 2024

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Schoolchildren from Escola Ramon Fuster visit ICTA-UAB to learn about our research on resource recovery in buildings and conducted experiments on CO<sub>2</sub> and plants

9 May 2024

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Participation in the CROMA 2.0 program. Two hundred schoolchildren visited the ICTA-UAB accompanied by volunteer students

22 May 2024

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ICTA-UAB participates in the UAB Summer School through several researchers

June & July 2024

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Anna Petit Boix participates in the Científiks en Joc program of the Generalitat de Catalunya

28 June 2024

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ICTA-UAB raises awareness on the need to reduce fossil fuels in the UAB Science Wagon

19 September 2024

---

Berta Roset Pérez and Pablo Núñez Yebra participate in the Nit de la Recerca with scholars

27 September 2024

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Can we reduce organic waste? Students from La Pau School participate in the Magnet program with Bofill Foundation

3 October 2024

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## Exhibitions and fairs

Ethnobotany in the Camprodon Valley, with Sandrine Gallois and Álvaro Fernández-Llamazares

27 April 2024

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Challenges of the low-density city, with Isabelle Anguelovski at the CCCB

3 May 2024

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Dialogues on the banks of the Besòs: City and climate emergency, with Isabelle Anguelovski at the Auditorium of the Torre Balldovina Museum

14 May 2024

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“Màquina Climàtica” exhibition in Barcelona shows the importance of the greenhouse effect

6 June 2024

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ICTA-UAB participates in the Festa de la Ciència

8-9 June 2024

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ICTA-UAB hosts the 27th Exercise of Organic Elemental Analysis and Isotopic Analysis

20 June 2024

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ICTA-UAB Summer Day

26 June 2024

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ICTA-UAB's Buddy Program led by the CARES group

1 July 2024

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The “Ecos da Babitonga” exhibition highlighted the cultural heritage and history of small-scale fishing in Southern Brazil

8 July 2024

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Researchers' Night

25 September- 4 October 2024

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ICTA-UAB Welcome Day Academic Year 2024-2025

1 October 2024

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Stop Bike Theft at Festa de la Bici 2024

6 October 2024

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Jason Hickel participates in the session “Degrowth to live better?” of the Biennial del Pensament of the Barcelona City Council

9 October 2024

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Participation in the 100xCiència Congress organized by the SOMMa Alliance in Mallorca

9-11 October 2024

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Celebration of the 10th anniversary of the inauguration of our ICTA-ICP building

10 October 2024

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Participation in the Setmana de la Innovació UAB with Xavier Gabarrell i Durany. Taula rodona «Mobilitat i sostenibilitat»

14-18 October 2024

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Participation at the Festival Suncine

1-9 November 2024

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ICTA-UAB, at the CCCB School in Residence, with Leticia Santos de Lima

11 November 2024

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Xavier Gabarrell i Durany, jury of the CONAMA 2024 eco-design competition

19 Nov 2024

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## Companies

BiciZen app by ICTA-UAB researchers Jordi Honey-Rosés and Gemma Simón Mas

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Tectum Garden is part of the UAB business ecosystem

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Weekly pollen forecast reports by Jordina Belmonte's project on aerobiology

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SIRAH project. Prototypes for efficient fertigation

## Policymaking

Environmental Impact Report on Syrian War covers ten specific cases of environmental injustice in Syria and complements the publications of the EJAtlas-Global Atlas of Environmental Justice

28 February 2024

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Participation of Jason Hickel at 50th Congress on the New International Economic Order

28 April 2024

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Visit of members of the Agència de Residus de Catalunya

15 May 2024

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ICTA-UAB researcher Sergi Ventura Caballé participates in the Café Prismàtic to talk about heat waves in the metropolitan area of Barcelona

23 May 2024

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Workshop "Energy, water, land: Building alliances for a just and sovereign transition in Catalonia"

30 May 2024

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ICTA-UAB organizes a creative workshop with experts on "Transformations and Rural Development"

31 May 2024

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Presentation of the "Global Atlas of Environmental Justice" (EJAtlas) at the Association of Journalists of Catalonia

11 June 2024

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Workshop “Systematization of Nature-Based Solutions in Spain (E:SBN)”

14 June 2024

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La Miralda: participatory workshop on ecosocial alternatives

15 June 2024

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Workshop “Lessons from the Superblocks in Barcelona: What’s next?”

19 June 2024

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Presentation by the National Office for Scientific Advice (ONAC)

20 June 2024

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Global Climate Justice Seminar

17 September 2024

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Isabelle Anguelovski speaks at the Congress of Deputies on environmental justice

23 September 2024

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Gemma Morell Delgado participates with a talk on what is done with the clothes we throw away at the “Veus” day of informative conferences

11 November 2024

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Workshop “Fostering Nature-Based Solutions in Urban Water Systems”

13 November 2024

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# KEYNOTE SPEAKERS AND VISITORS

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## Keynote speakers

Richard Norris, University of California, San Diego, Scripps Institution of Oceanography  
“How Sustainable are Polar Fisheries? A Deep Time view of Global Fish Production”

7 March 2024

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Francisco Alpízar, Wageningen University and Research  
“Behavioural and community field experiments on local institutions for managing water scarcity”

8 April 2024

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Janet Newton, oceanographer at the University of Washington  
“The importance of partnerships, from local to global scales, for crafting effective co-production of adaptive actions to ocean acidification”

18 April 2024

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Hamza Hamouchene, Transnational Institute  
“Dismantling Green Colonialism: Energy and Climate Justice in the Arab Region”

14 May 2024

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Harini Nagendra, Azim Premji University  
“Urban Commons in a Fast Changing World: Building Ecologically Smart Cities in the Global South”

16 May 2024

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Eduardo S. Brondizio, Indiana University Bloomington  
“Reflections on place-based collective action for sustainability and social justice in Amazonia”

25 September 2024

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Ismael Vaccaro, Institución Milá y Fontanals of the Spanish National Research Council (CSIC), Barcelona

“Understanding the processes of modernization of mountain landscapes in the Pyrenees”

3 June 2024

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Cecília Silva, Faculty of Engineering, University of Porto (FEUP), and CITTA -the Research Centre for Territory, Transports and Environment

“Accessibility: The Illusion of Speed & The Depletion of Proximity”

25 June 2024

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Arun Agrawal, SEAS, University of Michigan, and Mara Ferreri, Department of Regional and Urban Studies and Planning (DIST), Polytechnic of Turin

“Bridging schools of Thought. New frontiers in the research on commons and commoning”

21-22 October 2024

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Veronique Van Acker, Luxembourg Institute of Socio-Economic Research

“Mobility and well-being: Five lessons learned from recent projects”

31 October 2024

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Daniele Tubino de Souza, Water Resources Management Group, Wageningen University  
“Seeing rivers otherwise: Learning through and with Critical Cartography”

13 December 2024

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## Visitors

Gianluigi de Tommasi, PIF FENIX  
Università Degli Studi di Bari

10/11/2023-31/10/2024

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Lawrence Tang, Visiting postgraduate  
Yale University

6/1/2024-8/10/2024

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Lindsey Paskulin, Visiting postgraduate  
University of British Columbia

8/1/2024-30/3/2024

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Charlie Mioulet, Visiting postgraduate  
Leiden University

15/1/2024-15/7/2024

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Rafaelle Guarino, Visiting postgraduate  
Università degli Studi di Napoli Parthenope

15/1/2024-30/4/2024

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Stefania Bianco, Visiting postgraduate  
Università di Pavia

27/1/2024-27/3/2024

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Femke Min, Visiting postgraduate  
Leiden University

29/1/2024-29/6/2024

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Rhenan Bontempi, Visiting postgraduate  
Universidade Sao Paulo

7/2/2024-24/7/2024

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Javier Osorno, Guest researcher  
Universidad Nacional Autónoma de México

22/2/2024-21/3/2024

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Milena Marie Beekmann, Visiting  
postgraduate  
La Sapienza University

22/2/2024-15/3/2024

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Stéphane Coutourier, Guest researcher  
Universidad Nacional Autónoma de México

22/2/2024-21/3/2024

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Judith Glimmerveen, Visiting postgraduate  
University Radboud

26/2/2024-30/6/2024

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Pooja Choksi, Guest researcher  
University of Minnesota

1/3/2024-30/3/2024

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Linda Zardo, Guest researcher  
IUAV University of Venice

11/3/2024-22/3/2024,

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Tobias Kuemmerle, Visiting postgraduate  
Humboldt-University Berlin

15/3/2024-30/3/2024

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Anwesha Dutta, Guest researcher  
Chr. Michelsen Institute, Bergen, Norway

16/3/2024-22/3/2024

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Kathryn Shipley, Visiting postgraduate  
Vrije Universiteit Amsterdam

18/3/2024-15/9/2024

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Maro Patazidou, Visiting postgraduate  
University of York

23/3/2024-30/4/2024

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**Carlos Mantilla Andrada, Visiting postgraduate**  
CIEMAT

1/4/2024-30/6/2024

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**Fabio Matos, Visiting postgraduate**  
Universidade de Aveiro-ECIU

1/4/2024-1/10/2024

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**Priscila Gonzalez Costa, Visiting postgraduate**

Universidade Sao Paulo

1/4/2024-8/10/2024

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**Salvador Pueyo, Guest researcher**  
CREAF

1/4/2024-31/12/2024

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**Meryem Upson, Visiting postgraduate**  
Utrecht University-Erasmus Traineeship

2/4/2024-5/10/2024,

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**Mildred Munjunga, Visiting postgraduate**  
Università degli Studi di Siena

3/4/2024-29/7/2024

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**Belen Grove, Visiting undergraduate**  
Avans University of Applied Sciences

8/4/2024-23/8/2024

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**Dominik Huber, Visiting postgraduate**  
Vrije Universiteit Brussel

15/4/2024-15/7/2024

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**Naira Michalina Dehmel, Visiting postgraduate**

King's College London

15/4/2024-31/5/2024

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**Petter Hällberg, Guest researcher**  
Department of Geological Sciences,  
Stockholm University

13/5/2024-8/6/2024

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**Diana Marcela Ruiz Rios, Visiting postgraduate**  
Instituto Alexander von Humboldt,  
Colombia

22/5/2024-17/6/2024

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**Max Maciel, Visiting postgraduate**  
Universidade de Aveiro

1/6/2024-1/12/2024

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**Zoe Mathieu, Visiting postgraduate**  
UniLaSalle Rennes

17/6/2024-27/9/2024

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**Bruna Ribas, Visiting undergraduate**  
Joves i Ciència Catalunya La Pedrera

1/7/2024-31/7/2024

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**Anni Huhtala, Guest researcher**  
The Finnish Economic Policy Council

1/9/2024-31/5/2025

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**Flora Madacsi, Visiting undergraduate**  
Aalborg University

1/9/2024-31/1/2025

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**Lorenzo Saccuman, Visiting postgraduate**  
Lund University

1/9/2024-31/1/2025

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**Luiz Geraldo Silva, Guest researcher**  
Universidade Federal do Paraná

1/9/2024-30/11/2024

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2/9/2024-31/1/2025

28/10/2024-8/11/2024

2/9/2024-31/1/2025

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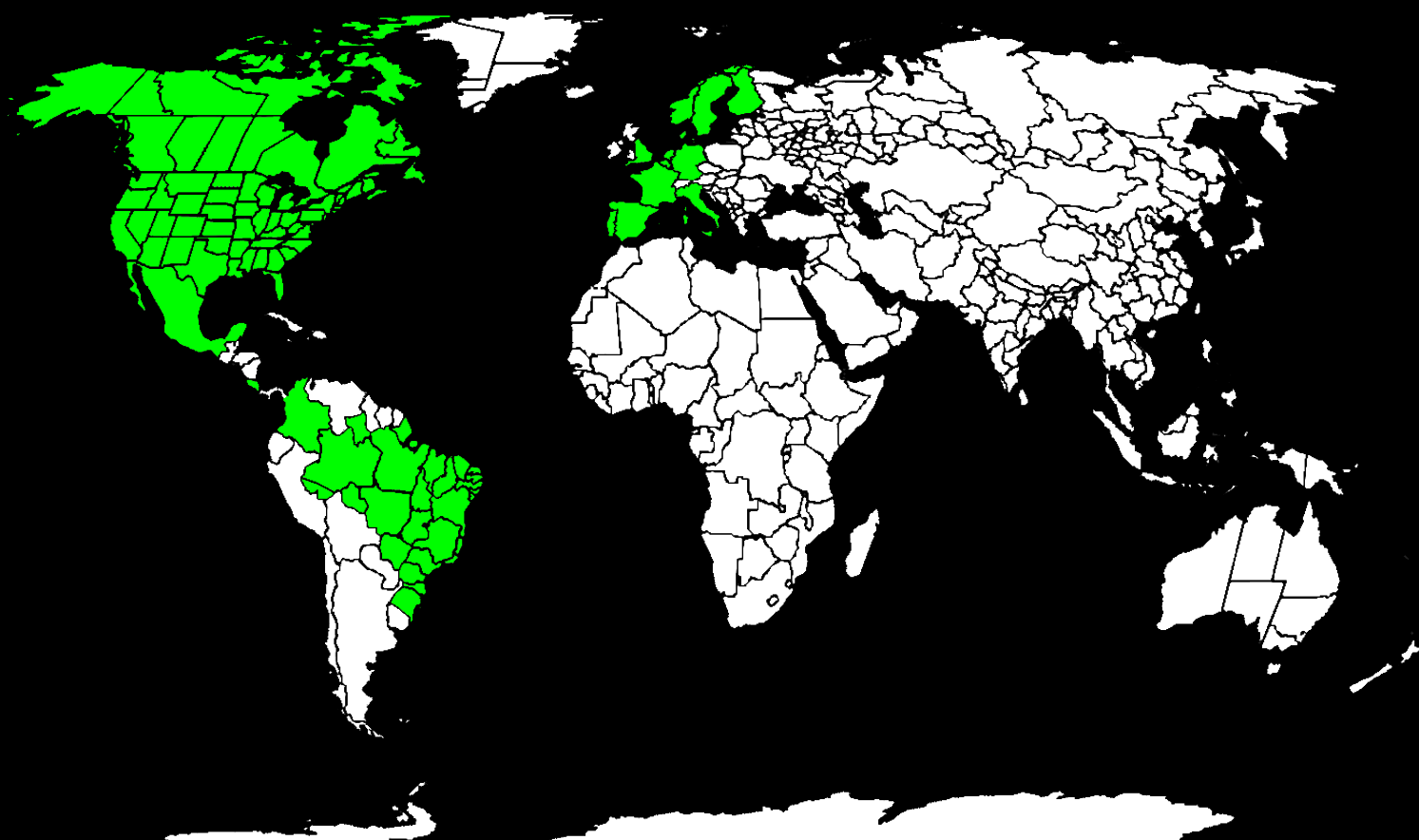
5/11/2024-31/1/2025

1/10/2024-31/3/2025

05/12/2024-31/1/2025

1/10/2024-31/3/2025

ICTA-UAB has received visitors from over a dozen countries including the US, and from South America and Europe.



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# TRAINING

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# 14

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# PHD PROGRAM

## PhD in Environmental Science and Technology

The PhD in Environmental Science and Technology is a UAB program adapted to the European Higher Education Area (EHEA) and is governed by Royal Decree 99/2011 of January 28, 2011 of the Government of Spain.



The PhD Program in Environmental Science and Technology was awarded in 2022 after AQU Catalunya’s evaluation with the highest overall assessment: Accredited in progress toward excellence.

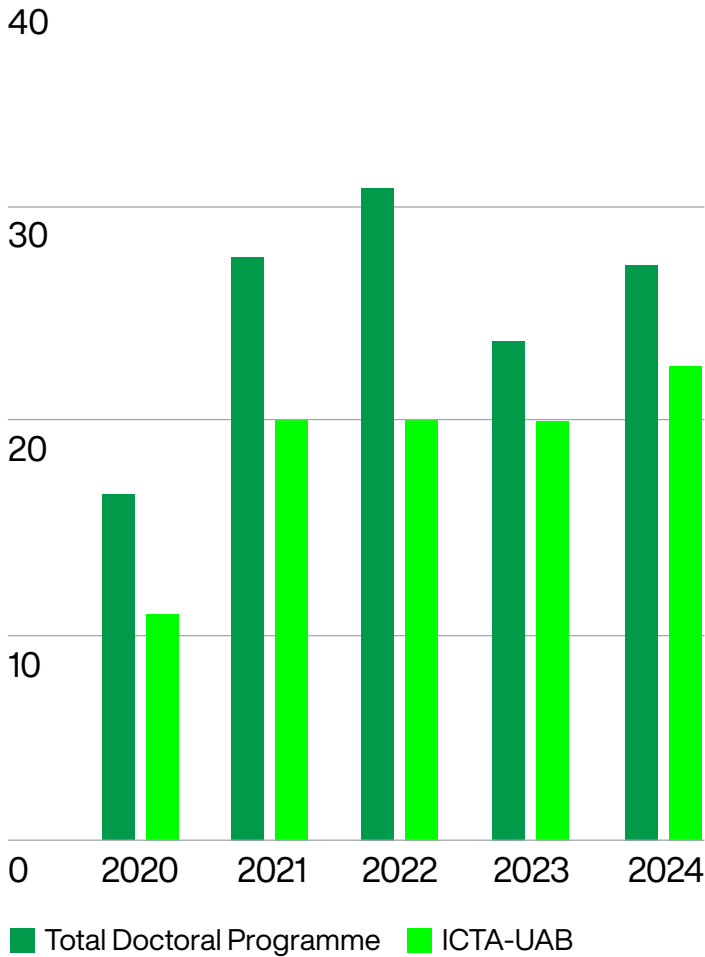
It covers 11 research lines framed in 4 thematic areas: ecological economics and environmental management, environmental technology, climate and global change, and industrial and urban ecology.

Coordinator  
PROF. ADRIANA ARTOLA CASACUBERTA

Academic board  
DR SERGIO VILLAMAYOR-TOMÁS  
PROF GRAHAM MORTYN  
PROF XAVIER GABARRELL I DURANY  
DR LAURA TALENS PEIRÓ AND  
DR ANNA PETIT-BOIX



## DOCTORAL THESES





# MASTERS

## Master's Degree in Interdisciplinary Studies in Environmental, Economic and Social Sustainability

The master's degree offers a mixed approach. On the one hand, it includes advanced course components for graduates of Environmental Sciences. On the other, it meets the needs of other graduates interested in incorporating environmental knowledge and skills into their academic training, based on fields such as Ecological Economics and Environmental Management, Analysis of the Natural Environment, Environmental Technology, Industrial Ecology or Global Change, all of which are considered specializations in this master's degree.

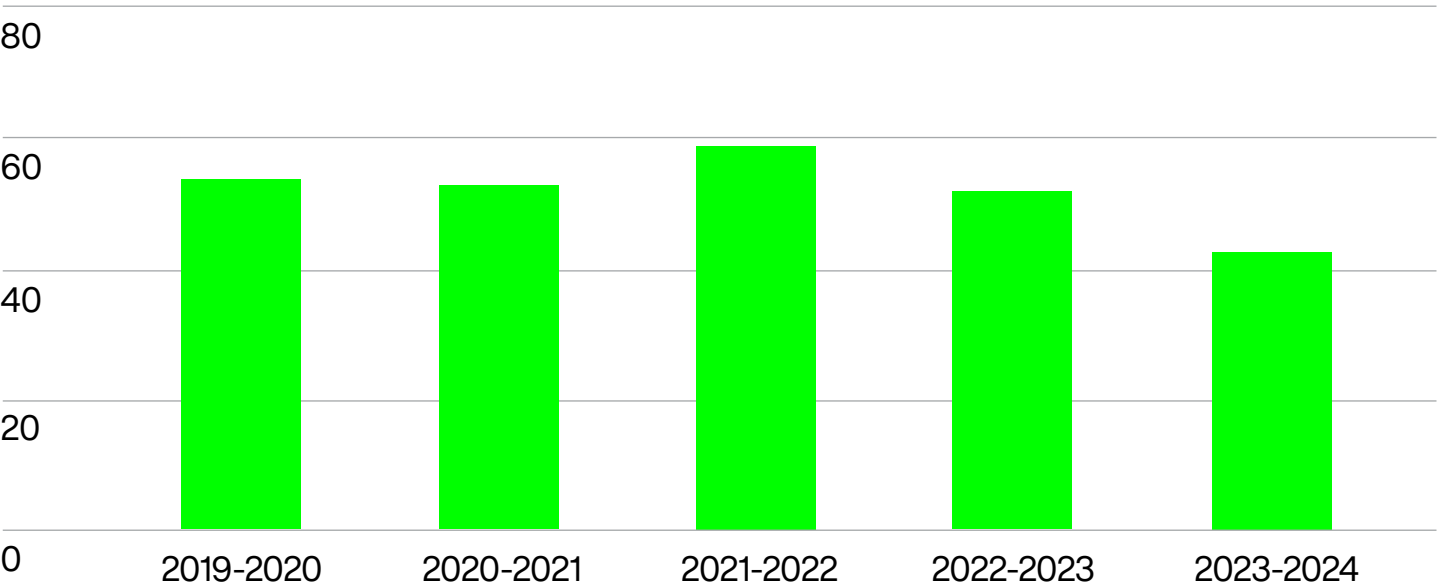
Of the 60 credits, 30 belong to compulsory core subjects and the rest form part of each specialization.



This master's degree has been offered since the 1997/98 academic year.

Coordinator  
ALAITZ ZABALA TORRES

## MASTER THESES



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## MASTERS

### Master's Degree in Political Ecology, Degrowth and Environmental Justice

This is the first master of its kind within the flourishing fields of Political Ecology, Degrowth and Environmental Justice, now in its 7th edition with 39 enrolled students.

The master is co-organized by ICTA-UAB and Research & Degrowth (R&D), an academic association dedicated to research, awareness-raising, and events organization around the topic of degrowth, bringing together the scholarly excellence of ICTA-UAB researchers with hands-on experience in activism and policy-making of R&D.

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#### Directors

KSENIJA HANAČEK AND GIACOMO  
D'ALISA

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## ADDITIONAL TRAINING COURSES

### Online Master on Degrowth: Ecology, Economics and Policy

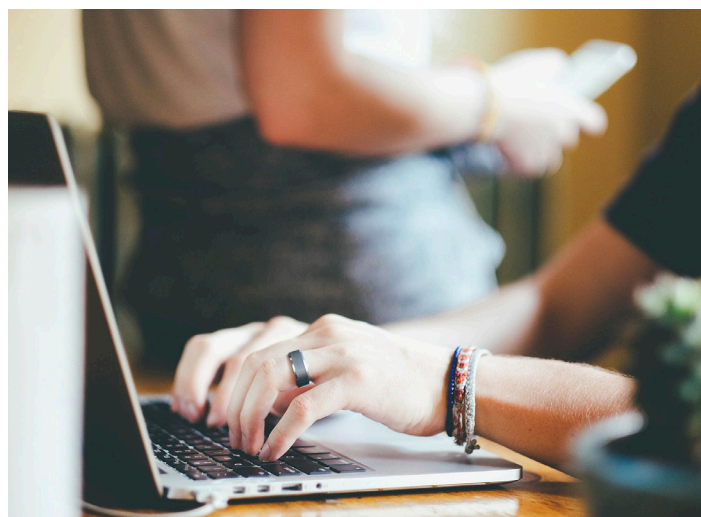
The first online master's on "Degrowth: Ecology, Economics and Policy" is an international master's fully dedicated on research and policy for degrowth. The course is ideal for those who want to learn more about degrowth, either after their bachelor's degree, or after they got a master's degree on a different topic or even started a PhD and want to give a degrowth direction to their research and work. This master is explicitly research-focused and oriented toward policy-making in the Global North.

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#### Coordinator

CLAUDIO CATTANEO

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## MOOC

### “Sustainability of Social-Ecological Systems”

This MOOC offers the opportunity to become familiar with the ideas of the water-energy-food nexus and transdisciplinary thinking.

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Coordinator  
MARIO GIAMPIETRO

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## MOOC

### Climate Change and Indigenous Peoples and Local Communities

This MOOC tackles the key notions related to Climate change and Indigenous People and local communities' knowledge systems. Students study the differentiated impacts that climate change has on Indigenous Peoples and local communities (IPLC), familiarize themselves with different responses to climate change impacts led by IPLC, and learn about different strategies aiming to incorporate IPLC to climate change research and policy.

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Coordinator  
VICTORIA REYES-GARCÍA

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## MOOC

### Circular economy

The new online course on the circular economy explores sustainable business models, waste reduction, resource efficiency, and environmental impact. It covers key principles of circularity, such as reuse, recycling, and product life-cycle management, offering practical insights for transitioning toward a more sustainable and regenerative economy.

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Coordinator  
LAURA TALENS PEIRÓ

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## MDM TRAINING

### ACTIVITIES

We offer general and specific training activities through the María de Maeztu program, on an annual basis and at the start of each academic year, from September to October.

- Open Science
- Good practice in research
- Becoming a scientific writer: Putting why?
- Before how?
- Research design
- Statistical analysis with R
- Dynamic human-environment games

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Coordinator  
MARÍA PASTOR MOLLA

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# Graduate Diploma in Specialization in Promoting Agroecological Farming at the Local Level

The Graduate Diploma in Specialization in Promoting Agroecological Farming at the Local Level offers an innovative strategy for local development and a methodological proposal that integrates social research and participatory techniques, to promote the Agroecological Transition of local agri-food systems to make them healthier, more just and more sustainable. The course is focused on interpreting the processes that affect rural areas and urban and peri-urban agriculture, with special emphasis on the recovery of traditional agroecological knowledge and the creation of alternative food networks. All of this from a participatory perspective that places agricultural production at the center of territorial, economic, and social development.

The course combines virtual sessions covering theoretical knowledge, and inperson sessions where participatory methodologies are put into practice and visits are made to agroecological initiatives. The course is organized by ICTA-UAB with the Institute of Government and Public Policy (IGOP-UAB), and with the participation of the Chair of Agroecology and Food Systems (UVic-UCC), the Institut Metròpoli and the cooperative Arran de Terra SCCL in the coordination board.

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Coordinators  
VICTORIA REYES-GARCÍA AND  
JOSEP ESPLUGA TRENC

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# Degrowth Summer School

The Degrowth Summer School started in 2014 and has brought together academics, students, practitioners, artists, activists and community organizers to collectively learn and debate about topics related to degrowth and environmental justice. The school is organized by Research & Degrowth (R&D) and customarily takes place over two weeks in Barcelona, at ICTA-UAB and a rural part of Catalonia.

Coordinator  
RESEARCH & DEGROWTH

# Summer School on urban agriculture

The new Summer School on urban agriculture aims to assist researchers in assessing the environmental impact of urban agriculture and its role in promoting climate resilience in the cities of the future. It includes a visit to the experimental greenhouse on the campus of the UPC Terrassa and two hydroponic gardens made by the start-up TECTUM GARDEN.

Coordinator  
SOSTENIPRA





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## UAB SUMMER SCHOOL

### Geography of Global Change

Geography of Global Change (GGC) is an all-encompassing global course that critically considers aspects of environmental threat today, especially climate change. The course begins with basic principles of evaluation, including spatial and temporal scales, principles of “change”, followed by distinct impacts spheres of the Earth, including the atmosphere, oceans, and land surfaces. Special attention is applied to the oceans given the particular importance of this realm on our blue planet. There are two field trips: one to Barcelona to discuss aspects of urban global change, and to the ICTA-UAB campus.

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Coordinator  
GRAHAM MORTYN

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## UAB SUMMER SCHOOL

### Ecological economics and degrowth principles

The course Ecological Economics and Degrowth Principles aims at presenting a new perspective in the economic field by relating it to the environment (planetary boundaries) and sustainable development goals. It considers the limits of the green circular economy, growth's main dilemmas and its implications for society and the environment. You will contrast the trade-offs between economic growth (and job creation) and environmental protection with social justice and will learn about the new perspective of Degrowth.

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Coordinator  
CLAUDIO CATTANEO

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# LABORATORY FACILITIES

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ICTA-UAB laboratories are managed by our research groups working on modern and past socioecological systems, including IMPACTANT, EARLYFOODS, MERS and SOSTENIPRA ● These investigate issues such as ocean acidification, microplastic pollution and urban agriculture, as well as past climate, organic geochemistry, and human societies ●

Laboratories are equipped with world-class laboratories and analytical facilities for inorganic and organic chemistry, as well as for stable isotopes, molecular, sedimentary, micropaleontological, microbotanical, and microplastic analysis. The institute also hosts agro-urban labs that routinely develop food production models and a greenhouse gas monitoring network in the Metropolitan Area of Barcelona.

In 2024, our lab facilities supported research across a variety of scientific fields in collaboration with departments at UAB and over 40 research centers in Spain and abroad. They also allowed the institute to provide commercial services in environmental, forensic, and archaeological studies to over 12 private and public institutions through UAB's accredited services, including the LAIE (stable isotopes), ENVIFORENSIC (organic chemistry), BIOMAP (proteomics), MEL (microplastics) and SIGPO (micropalaeontology).

The institute analytical range is complemented by affiliated facilities, including the Environmental Radioactivity Laboratory (Department of Physics), the Chemical Analytical Services Laboratory (SAQ, Department of Chemistry) and the Laboratory of Palynological Analysis (Department of Biology), all of which also provide academic and commercial services.

Scientific highlights: ICTA-UAB laboratory facilities are one of the few labs in Spain offering stable carbon isotope analysis on single amino acids and in benzene polycarboxylic acids (BPCA), as well as analysis of collagen peptide fingerprinting (ZooMS) for vertebrate taxonomic identification. These techniques are in high demand in food, environmental, and archaeological sciences.





ORGANIC AND INORGANIC CHEMISTRY



MICROPLASTIC EXTRACTION LABORATORY



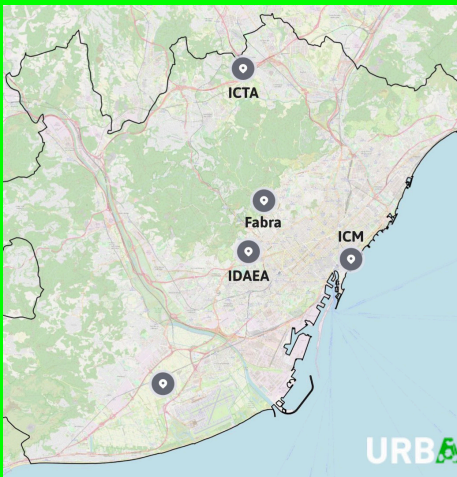
ORGANIC GEOCHEMISTRY AND ENVIRONMENTAL LABORATORY



AGRO-URBAN LAB: I-RTG INTEGRATED ROOFTOP GREENHOUSE



BIOMOLECULAR ARCHAEOLOGY AND PALAEOECOLOGY



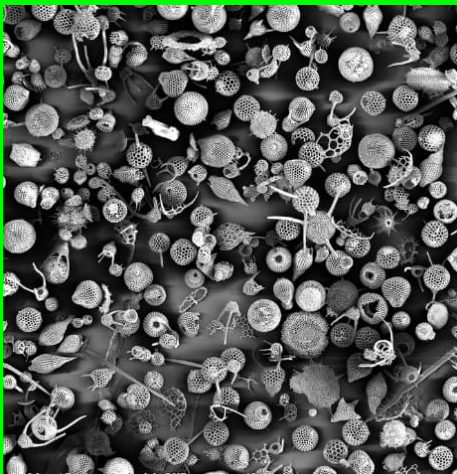
GHG MONITORING NETWORK OF THE METROPOLITAN AREA OF BARCELONA



STABLE ISOTOPE ANALYSIS



SEDIMENTOLOGY



MICROPALAEONTOLOGY

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# DISSEMINATION AND COMMUNICATION

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# 16

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In 2024, ICTA-UAB significantly expanded its outreach and communication efforts, enhancing visibility, engagement, and institutional positioning ● These activities spanned public dissemination events, media engagement, social media growth, and a comprehensive rebranding initiative ●





# DISSEMINATION ACTIVITIES

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## Seminars, Workshops, and Events

ICTA-UAB hosted a variety of scientific and social activities throughout the year, reinforcing its role as a hub for both interdisciplinary research and community engagement.

## Scientific Activities:

93 seminars and workshops

## Social Activities:

- Weekly Coffee Breaks
- ICTA-UAB in 100 Words Contest as part of the Diada de Sant Jordi
- ICTA-UAB Summer Day
- 10th Anniversary Celebration of the ICTA-ICP Building



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# COMMUNICATION ACTIONS

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## Press and Media Impact

In 2024, ICTA-UAB issued **42 press releases** related to its research findings. These stories were covered by newspapers, radio, and TV at local, national, and international levels, resulting in:

- **1,971 media impacts** across newspapers, TV channels, and radio stations.
- Features in prominent outlets at **local, national, and international** scales.
- Coverage spanning environmental issues, policy recommendations, and scientific breakthroughs.

## Social Media Growth and Engagement

ICTA-UAB's communication efforts focused on increasing visibility and engagement across digital platforms. A key milestone was the launch of the center's Instagram account, which strengthened its connection with younger audiences, while the expansion of original content on YouTube led to significant growth in viewership.

## Platform Highlights

- X (formerly Twitter): **12,000 followers, 1.4 million impressions** (in 2024).
- Instagram: Launched in June 2022, as of December 2024 at **1,600+ followers**. TOP POST: A collaboration with artist **Javi Royo** (Nov 29, 2024) reached **56,605 views**.

## YouTube Expansion

Since mid-2022, ICTA-UAB has strategically repurposed content from Instagram to YouTube, leading to:

- **60,600 views** (a 760% increase)
  - **414 new subscribers** (a 316% rise).
- This underscores YouTube's growing importance as a tool for expanding ICTA-UAB's audience and deepening engagement.

## Newsletter Outreach

ICTA-UAB's scientific findings and activities were also disseminated through a monthly online newsletter, which reached **1,718 subscribers** worldwide in 2024.

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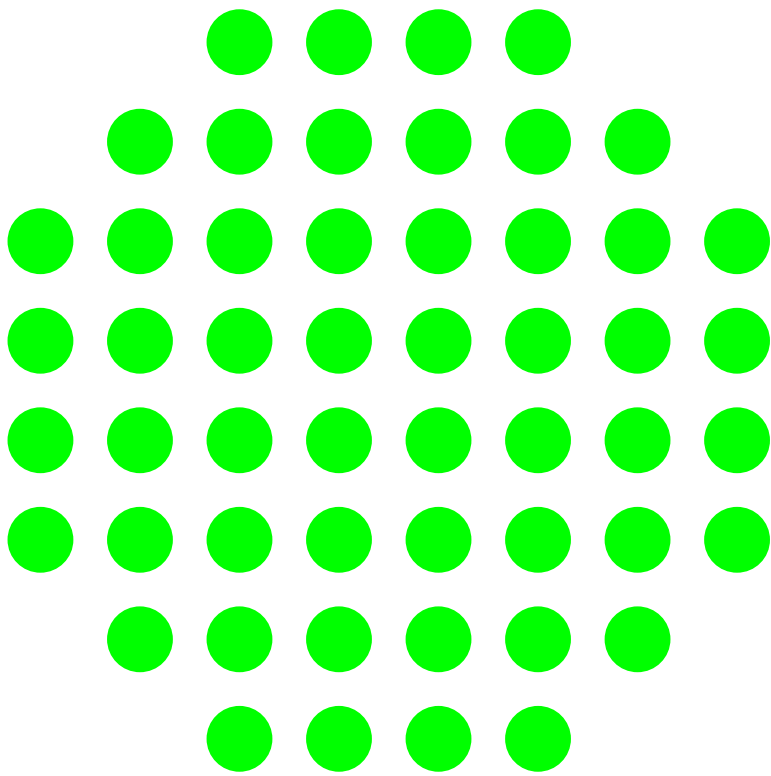
# REBRANDING: A NEW VISUAL IDENTITY

In 2024, ICTA-UAB embarked on a strategic rebranding initiative to align its identity with its evolving research mission. This included a new communication strategy, positioning, and corporate visual identity, reinforced through new merchandising materials and updated building signage.

The rebranding, developed by pfp, disseny, modernized ICTA-UAB’s identity while retaining our core identity elements. The updated logo refines existing shapes for a more recognizable and contemporary look, while the bold neon green evokes

nature, energy, and innovation. The font Helvetica Now replaces Helvetica Neue for improved clarity and readability. Additionally, a new color-coded system represents ICTA-UAB’s five key research challenges: Oceans, Land, Cities, Consumption, and Policies.

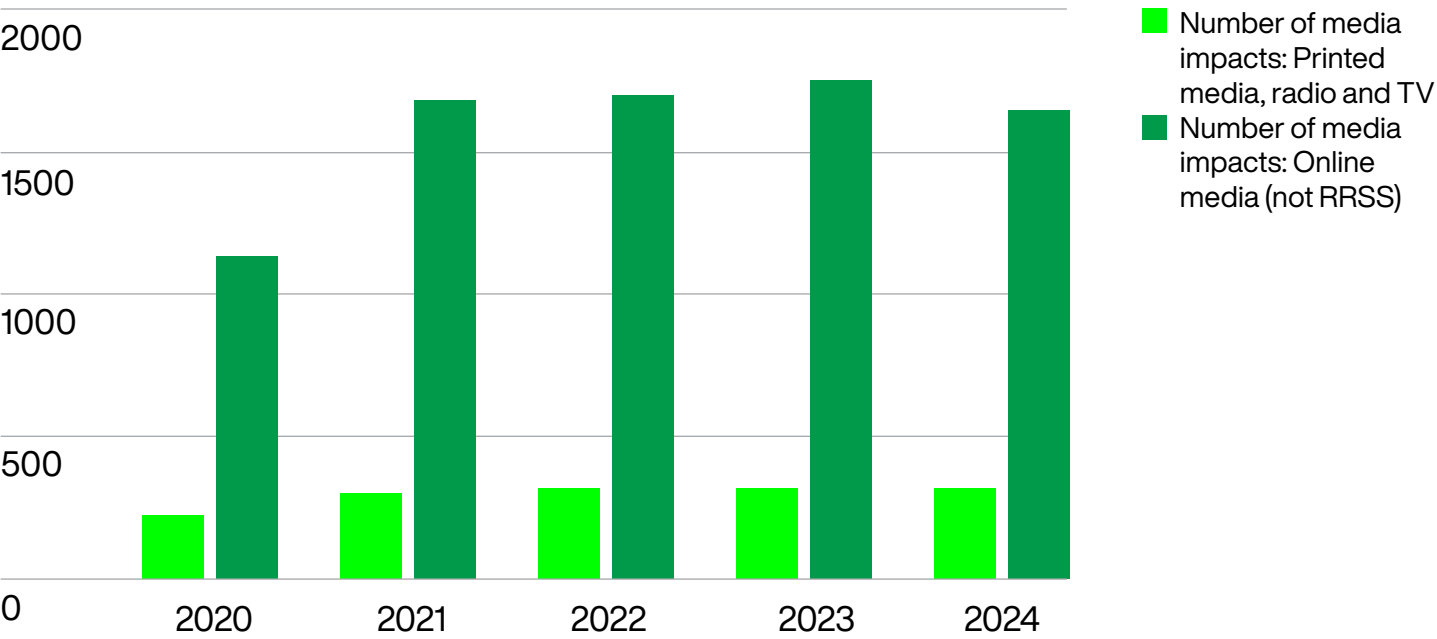
The new tagline, *Brave Science for a Changing World*, succinctly captures ICTA- UAB’s commitment to cutting-edge interdisciplinary research, social equity, and bold solutions for global challenges.







# COMMUNICATION AND OUTREACH



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# SELECTED NEWS COVERAGE

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## MONGABAY

Who protects nature better: The state or communities? It's complicated

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## LA VANGUARDIA

El edificio más sostenible de Catalunya cumple diez años en plena forma

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## TV3

Què s'ha de fer amb roba feta malbé, complements i calçat? Tot al contenidor taronja

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## NOTICIAS LA SEXTA

Mika Grelaud: El vertido de pellets deja al descubierto la enorme cantidad de plástico que inunda los océanos

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## THE GUARDIAN

Isolated Indigenous people as happy as wealthy western peers-study

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## BBC

Study reveals where the happiest people in the world live

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## EFE VERDE

'Menos es más. Cómo el decrecimiento salvará al mundo'

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## MUY INTERESANTE

Así 'gastan' las 24 horas del día los humanos de todo el mundo

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## TVE

¿Aprovechar alimentos o perder dinero?

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## RNE

Isabelle Anguelovski integrará el comité de Evaluación Nacional de la Naturaleza designado por el gobierno de Estados Unidos

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## EL PAIS

Giorgos Kallis: "La resposta al desastre de València pot ser pitjor que el desastre"

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## EL MUNDO

España afronta el reto de evitar otra riada mortal: "Reconstruir las zonas afectadas como estaban antes es lo peor que podemos hacer"

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## RADIO CANADA

Álvaro Fernández- Llamazares: Dire que «80 % de la biodiversité se trouve en territoire autochtone» serait faux

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# ANNEXES

Annex I Doctoral Theses

Annex II Publications

Annex III Active Projects

Annex IV Press releases

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# ANNEX I

## DOCTORAL THESES

[in alphabetical order]

AZNÁREZ, CELINA. 2024.  
The role of urban biodiversity in green infrastructure multifunctionality and environmental justice.  
Co-directors: Unai Pascual, Francesc Baró  
Supervisor: Isabelle Anguelovski

BOURGUIGNON, ROBERT NICHOLAS. 2024.  
Liquid Encounters: Hydrosocial Territories, Socionatures, and Subjectivities of Interbasin Water Transfers.  
Co-directors: Sergio Villamayor, Rutgerd Boelens.  
Supervisor: Sergio Villamayor

CAMACHO CABALLERO, DAVID ALEJANDRO. 2024.  
The impacts of urban nature-based solutions: An integrated spatial vulnerability perspective.  
Co-directors: Johannes Langemeyer, Gara Villalba, David N. Barton  
Supervisor: Gara Villalba

CAVIEDES, PAÚL JULIÁN. 2024.  
Livelihood resilience to social-ecological changes in Important Agricultural Heritage Systems of southern South America.  
Co-directors: André Braga Junqueira, Laura Calvet-Mir, José Tomás  
Supervisor: Victoria Reyes-García

CHAMBON, MOUNA. 2024.  
Unveiling the gendered dimensions of fisheries co-management in a changing climate: Plural voices from the Shimoni-Vanga seascape, Kenya.  
Co-directors: Victoria Reyes-García, Patrizia Ziveri, Nina Wambiji  
Supervisor: Victoria Reyes-García

FACCHINI, FRANCESCO. 2024.  
Weaving mutual aid for food justice: Intersectional coalitions and governance for a just agroecology.  
Co-directors: Sergio Villamayor, Esteve Corbera, Daniel López  
Supervisor: Esteve Corbera

FANARI, ELEONORA. 2024.  
Protecting the Wild: A Study on the Securitization of Conservation and its Resistances, in India.  
Co-directors: Sergio Villamayor-Tomás, Arnim Scheidel, Dan Brockington  
Supervisor: Sergio Villamayor-Tomás

FOSSILE, THIAGO. 2024.  
Integrating coastal marine zooarchaeology and conservation biology in tropical South America.  
Director: André Colonese  
Supervisor: André Colonese

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GU, BOWEN. 2024.  
**Black Gold and Environmental Justice: The Political Ecology of Coal in China and “Global China”.**

Co-directors: Joan Martínez-Alier,  
Juan Liu, Arnim Scheidel  
Supervisor: Arnim Scheidel

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HEYDENREICH, TILL. 2024.  
**Ecological Macroeconomics: The path towards a just low-carbon transition for countries in the European Union.**

Co-directors: Federico Demaria,  
Simone D’Alessandro, Roger Samsó  
Supervisor: Arnim Scheidel

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IENGO, ILENIA. 2024.  
**From Margin to Center of Feminist Political Ecology: An Environmental Justice, Trans-feminist, and Crip praxis from the Southern European city of Naples, Italy.**

Co-directors: Panagiota Kotsila, Stefania Barca, Giovanna Di Chiro  
Supervisor: Enrico Mora

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JAMES, ANNIE. 2024.  
**Forests in Red: Anticapitalism and Community Forest Governance in Western India.**

Co-directors: Sergio Villamayor-Tomás,  
James Angus Fraser  
Supervisor: Sergio Villamayor-Tomás

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MATHENEY, AUSTIN GAGE. 2024.  
**Research, Activism, and Methodologies for Uncovering and Countering the Green City Orthodoxy.**

Director: Isabelle Anguelovski  
Supervisor: Isabelle Anguelovski

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NICART ARROYO, MIREIA. 2024.  
**Analysis of global change in Lower Casamance and its effects on the territory and soils of the commune of Mlomp (South-West Senegal, West Africa).**

Co-directors: Sònia Sánchez Mateo,  
Jose Ramon Olarieta, el Hadji Oumar Toure  
Supervisor: Jordina Belmonte

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NOGUÉ ALGUERO, BORJA. 2024.  
**Limits to Blue Growth: Linking Marine Sustainability and Degrowth in the North-Western Mediterranean.**

Co-directors: Giorgos Kallis, Santiago Gorostiza, Miquel Ortega  
Supervisor: Giorgos Kallis

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PENALVA ARIAS, NÚRIA. 2024.  
**Identification of black carbon contributions in oceanic sediments using benzene polycarboxylic acid markers.**

Co-directors: Joan Villanueva, Maria Raja  
Supervisor: André Colonese

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PORCUNA FERRER, ANNA. 2024.  
**Crop diversity in a changing world: evidence from Bassari farmers in south-eastern Senegal.**

Co-directors: Victoria Reyes-García,  
Vanesse Labeyrie  
Supervisor: Victoria Reyes-García

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RUIZ DE GOPEGUI ARAMBURU, MARÍA. 2024.  
**Urban public space and climate adaptation justice: Challenges and opportunities for project planning, design and evaluation.**

Co-directors: Marta Olazabal,  
Vanesa Castán Broto  
Supervisor: Isabelle Anguelovski

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SCHLINGMANN, ANNA. 2024.  
Global patterns and local realities.  
Adaptation to climate change by Indigenous  
Peoples and local communities.  
Co-directors: Victoria Reyes-García,  
Katharina Waha  
Supervisor: Victoria Reyes-García

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SEGURA BARRERO, RICARD. 2024.  
Multiscale modelling to understand the  
influence of green infrastructure on  
temperature and atmospheric carbon  
capture.  
Co-directors: Gara Villalba, Alba Badia,  
Alberto Martilli  
Supervisor: Gara Villalba

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STRINGARI ASTORI, GAIA. 2024.  
Emission Factors from Urban Food  
Systems in a Circular City.  
Co-directors: Xavier Gabarrell,  
Francesco Orsini  
Supervisor: Xavier Gabarrell

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TONINI, PIETRO. 2024.  
Mitigating Food Loss and Waste in the  
Vegetable Sector: Exploring the Feasibility  
and Prospects of Locally Implemented  
Strategies.  
Co-directors: Xavier Gabarrell, Pere Muñoz  
Supervisor: Xavier Gabarrell

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VENNER KAYIN, JOËLL. 2024.  
From Competitive to Cohesive Adaptation:  
Unveiling Spatial Inequities in EU Urban  
Climate Adaptation Finance.  
Co-directors: Marta Olazabal,  
Melissa García Lamarca  
Supervisor: Isabelle Anguelovski



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## ANNEX II

# PUBLICATIONS

[in alphabetical order by journal]

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### Articles

Benitez-Altuna, F., Materia, V.C., Bijman, J., Gaitán-Cremaschi, D., Trienekens, J. (2024). **Farmer–buyer relationships and sustainable agricultural practices in the food supply chain: The case of vegetables in Chile.** *Agribusiness*, 40 (1). doi: 10.1002/agr.21829

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Caviedes, J., Ibarra, J.T., Calvet-Mir, L., Álvarez-Fernández, S., Junqueira, A.B. (2024). **Indigenous and local knowledge on social-ecological changes is positively associated with livelihood resilience in a Globally Important Agricultural Heritage System.** *Agricultural Systems*, 216, art. no. 103885. doi: 10.1016/j.agsy.2024.103885

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Floridia, T., Prakofjewa, J., Conte, L., Mattalia, G., Kalle, R., Söukand, R. (2024). **Small Farmers' Agricultural Practices and Adaptation Strategies to Perceived Soil Changes in the Lagoon of Venice, Italy.** *Agriculture (Switzerland)*, 14(11), Article number 2068. doi: 10.3390/agriculture14112068

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Mansfield, B., Werner, M., Berndt, C., Shattuck, A., Galt, R., Williams, B., Argüelles, L., Barri, F.R., Ishii, M., Kunin, J., Lapegna, P., Romero, A., Caicedo, A., Abhigya., Castro-Vargas, M.S., Marquez, E., Ojeda, D., Ramirez, F., Tittor, A. (2024). **A new critical social science research agenda on pesticides.** *Agriculture and Human Values*, 41 (2).

doi: 10.1007/s10460-023-10492-w  
Facchini, F., López-García, D., Villamayor-Tomas, S., Corbera, E. (2024). **Intersectional coalitions towards a just agroecology: weaving mutual aid and agroecology in Barcelona and Seville.** *Agriculture and Human Values*, 41 (3). doi: 10.1007/s10460-023-10529-0

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Gaitán-Cremaschi, D., Valbuena, D., Klerkx, L. (2024). **The roles and dynamics of transition intermediaries in enabling sustainable public food procurement: insights from Spain.** *Agriculture and Human Values*, 41 (4). doi: 10.1007/s10460-024-10562-7

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Bonnevera, I. (2024). **“New food cultures” and the absent food citizen: immigrants in urban food policy discourse.** *Agriculture and Human Values*. doi: 10.1007/s10460-024-10609-9

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Facchini, F., López-García, D. (2024). **Agroecology-oriented food redistribution amid a pandemic: contested local governance arrangements for sustainable food security.** *Agroecology and Sustainable Food Systems*. doi: 10.1080/21683565.2024.2444998

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Garriga-Baraut, T., Labrador-Horrillo, M., Tena, M., De Linares, C., Esteso-Hontoria, O., Pedemonte, C., Basagaña-Torrento, M., Miquel, S., Padró-Casas, C., Campa-Falcon, N., Ferré-Ybarz, L., Gázquez-García, V., Muñoz-Cano, R., Viñas, M., Farrarons, L. et al. (2024). **A real-life ImmunoCAT study: impact of molecular diagnosis through Immuno CAPTM ISAC 112 on immunotherapy prescription in pollen-polysensitized patients in Catalonia, Spain.** *Allergologia et Immunopathologia*, 52 (4). doi: 10.15586/aei.v52i4.1077

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Ezzine-de-Blas, D., Hayes, T., Corbera, E., Avila-Foucat, V.S. (2024). **Looking back to shape the future: Trajectories and resilience of social-ecological systems in the Global South.** *Ambio*, 53 (12). doi: 10.1007/s13280-024-02087-4

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Deane, A.S., Muchlinski, M.N., Organ, J.M., Vereecke, E., Bistrekova, V., Hays, L., Butterfield, T. (2024). **The comparative and functional anatomy of the forelimb muscle architecture of Humboldt's woolly monkey (*Lagothrix lagotricha*).** *Anatomical Record*, 307 (12). doi: 10.1002/ar.25514

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Torres-Delgado, A., Font, X., Oliver-Solà, J. (2024). **Self-defence against carbon footprint evidence: How employees of destination management and marketing organisations cope with conflicting environmental and economic data.** *Annals of Tourism Research*, 104, art. no. 103722. doi: 10.1016/j.annals.2023.103722

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Suryanarayan, A., Degli Esposti, M., Méry, S., Strolin, L., Mazuy, A., Moraleda-Cibrián, N., Villanueva, J., Regert, M. (2024). **Domestic food practice and vessel-use at Salūt-ST1, central Oman, during the Umm an-Nar period.** *Arabian Archaeology and Epigraphy*, 35 (1). doi: 10.1111/aae.12247

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Baniou, T., Suryanarayan, A., Livarda, A., Romaní Sala, N., Moraleda-Cibrián, N., Villanueva, J., Rodrigo Requena, E. (2024). **Tracing culinary practices in the western provinces of the Roman Empire using Organic Residue Analysis.** *Archaeological and Anthropological Sciences*, 16 (7), art. no. 103. doi: 10.1007/s12520-024-02011-7

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García-Escárczaga, A., Cantillo-Duarte, J.J., Milano, S., Arniz-Mateos, R., Gutiérrez-Zugasti, I., González-Ortegón, E., Corona-Borrego, J.M., Ramos-Muñoz, J., Colonese, A.C., Vijande-Vila, E. (2024). **Marine resource exploitation and human settlement patterns during the Neolithic in SW Europe: stable oxygen isotope analyses ( $\delta^{18}\text{O}$ ) on *Phorcus lineatus* (da Costa, 1778) from Campo de Hockey (San Fernando, Cádiz, Spain).** *Archaeological and Anthropological Sciences*, 16(3), art. no. 38. doi: 10.1007/s12520-024-01939-0

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Arniz-Mateos, R., García-Escárczaga, A., Fernandes, R., González-Morales, M.R., Gutiérrez-Zugasti, I. (2024). **Living in the shore: changes in coastal resource intensification during the Mesolithic in northern Iberia.** *Archaeological and Anthropological Sciences*, 16 (5), art. no. 79. doi: 10.1007/s12520-024-01982-x

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Camerlenghi, E., Mangini, G.G., Anderson, R.O., Cruz-Gispert, A., Loosveld, R., Gonzáles, P., Nolasco, S. (2024).

**Long corolla flowers in Tropical Andes favour nectar robbing by the Black Metaltail hummingbird: A study using citizen science and field observations.**

*Austral Ecology*, 49 (9), Article number e13591. doi: 10.1111/aec.13591

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de Vries, J., Monteiro, F., Langer, G., Brownlee, C., Wheeler, G. (2024).

**A critical trade-off between nitrogen quota and growth allows *Coccolithus braarudii* life cycle phases to exploit varying environment.**

*Biogeosciences*, 21 (7). doi: 10.5194/bg-21-1707-2024

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**Uncertain future for Congo Basin biodiversity: A systematic review of climate change impacts.**

*Biological Conservation*, 297, Article number 110730. doi: 10.1016/j.biocon.2024.110730

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Cash-Gibson, L., Diaz, A.B., Sardà, O.M., Benach, J. (2024).

**How do superblock interventions influence health? A scoping review.**

*Cities*, 153, art. no. 105262. doi: 10.1016/j.cities. 2024.105262

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**Spatial patterns and drivers of urban expansion: An exploratory spatial analysis of the Metropolitan Region of Santiago, Chile, from 1997 to 2013.**

*Cities*, 153. doi: 10.1016/j.cities.2024.105305

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Marquet, O., Mojica, L., Fernández-Núñez, M.-B., Maciejewska, M. (2024).

**Pathways to 15-Minute City adoption: Can our understanding of climate policies' acceptability explain the backlash towards x-minute city programs?**

*Cities*, 148, Art. num. 104878. doi: 10.1016/j.cities.2024.104878

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**Co-producing research and data visualization for environmental justice advocacy in climate change adaptation: The Milwaukee Flood-Health Vulnerability Assessment.**

*Cities*, 155, Article number 105474. doi: 10.1016/j.cities.2024.105474

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Cavaleri Gerhardinger, L., Moreira Moura, G.G., McKinley, E., Christie, P., Narchi, N.E., Colonese, A.C., Beitzl, C.M., Puniwai, N., de Oliveira, C.C., da Silveira, I., Harry, D., Early Capistrán, M.M. (2024).

**A Call for a Cultural Shift in Oceanography.**

*Coastal Management*, 52, (4-5). doi: 10.1080/08920753.2024.2370214

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**The biogeography of the Amazonian tree flora.**

*Communications Biology*, 7 (1). doi: 10.1038/s42003-024-06937-5

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Santos de Lima, L., Silva, F. E. O. E., Dorio Anastácio, P. R., Kolanski, M. M. D. P., Pires pereira, A. C., Menezes, M. S. R., Cunha, E. L.T. P., Macedo, M. N. (2024).

**Severe droughts reduce river navigability and isolate communities in the Brazilian Amazon.**

*Communications Earth and Environment*, 5 (1), Article number 370. doi: 10.1038/s43247-024-01530-4

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Reyes-García, V., García-del-Amo, D., Álvarez-Fernández, S., Benyei, P., Calvet-Mir, L., Junqueira, A.B., Labeyrie, V., Li, X., Miñarro, S., Porcher, V., Porcuna-Ferrer, A., Schlingmann, A., Schunko, C., Soleymani, R., Tofighi-Niaki, A., Abazeri, M., et al. (2024). **Indigenous Peoples and local communities report ongoing and widespread climate change impacts on local social-ecological systems.**

*Communications Earth and Environment*, 5 (1), art. no. 29. doi: 10.1038/s43247-023-01164-y

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Villamayor-Tomas, S., Bisaro, A., Moull, K., Albizua, A., Mank, I., Hinkel, J., Leppert, G., Noltze, M. (2024). **Developing countries can adapt to climate change effectively using nature-based solutions.**

*Communications Earth and Environment*, 5 (1), art. no. 214. doi: 10.1038/s43247-024-01356-0

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Giles, A., Schietti, J., Rosenfield, M.F., Mesquita, R.C., Vieira, DLM., Vieira, I.C.G., Poorter, L., Brancalion, P.H.S., Peña-Claros, M., Siqueira, J., Oliveira Junior, L., do Espirito-Santo, M.M., Sarmiento, P.S.de M., Ferreira, J.N., Berenguer, E., et al. (2024).

**Simple ecological indicators benchmark regeneration success of Amazonian forests.**  
*Communications Earth and Environment*, 5 (1), Article number 780. doi: 10.1038/s43247-024-01949-9

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Fanari, E. (2024).

**Participatory Security as Form of Control: Kaziranga National Park, India.**

*Conservation and Society*, 22 (3). doi: 10.4103/cs.cs\_44\_23

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**Selective Attention to Environmental Justice by International Cooperative Initiatives for Biodiversity and Climate.**

*Conservation and Society*, 22 (3). doi: 10.4103/cs.cs\_57\_23

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**Rates of tree cover loss in Key Biodiversity Areas on Indigenous Peoples' lands.**

*Conservation Biology*, 38 (3). doi: 10.1111/cobi.14195

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**"I will find the best method that will work for me": navigating contraceptive journeys amongst South African adolescent girls and young women.**

*Contraception and Reproductive Medicine*, 9 (39). doi: 10.1186/s40834-024-00298-4

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**'But, what's wrong with ruins?' Traversing inevitable loss in industrial heritage.**

*Cultural Geographies*, 31 (2). doi: 10.1177/14744740231191529

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**Local people enhance our understanding of Afrotropical frugivory networks.**

*Current Biology*, 34 (7). doi: 10.1016/j.cub.2024.02.026

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Nello-Deakin, S. (2024). Zuev, Dennis; Psarikidou, Katerina i Popan, Cosmic (eds.) (2021).

**Cycling Societies: Innovations, Inequalities and Governance.**

*Documents d'Anàlisi Geogràfica*, 70 (1). doi: 10.5565/rev/dag.876

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**A Global Survey of Scientific Consensus and Controversy on Instruments of Climate Policy.**

*Ecological Economics*, 218, Article num. 108098. doi: 10.1016/j.ecolecon.2023.108098

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# ANNEX III

## ACTIVE PROJECTS

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Co-designed Welfare Monitoring Platform for Pig and Dairy Cattle.  
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PI Gabarrell i Durany, Xavier

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PI Corbera Elizalde, Esteve

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International cooperation to restore and connect urban environments in Latin America and Europe. H2020-869324-INTERLACE.  
European Commission. 1/9/2020-28/2/2025.  
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H2020-869474-WATER-MINING.  
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Implementing a Mediterranean biorefinery to boost forest management through the production of added value products.  
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PI Fabregas Martínez, Esteve

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PI Kallis, Giorgos

Stakeholder-Based Environmentally-Sustainable and Economically Doable Scenarios for the Energy Transition (SEEDS). PCI2020-120710-2.  
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Economic Policy in Complex Environments. H2020-956107-EPOC.  
European Commission. 1/3/2021-28/2/2025.  
PI van den Bergh, Jeroen

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Governing Resource Urbanisation (GROUT): Multi-stakeholder governance of extractive industries in the era of planetary urbanisation. H2020-897072-GROUT.  
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PI Anguelovski, Isabelle

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Biodiversidad global de calcificadores planctónicos marinos (BIOCAL). PID2020-113526RB-I00.  
Ministerio de Ciencia e Innovación (MICINN). 1/9/2021-31/8/2025. PI Ziveri, Patrizia

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Baterías biodegradables y compostables para agricultura de precisión y sistemas energéticos descentralizados (BIDEKO). PLEC2021-007801.  
Ministerio de Ciencia e Innovación (MICINN). 1/10/2021-30/09/2025 PI Talens Peiró, Laura and Barrena Gómez, Raquel

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Pilot Application in Urban Landscapes towards integrated city observatories for greenhouse gases. H2020-101037319-PAUL. European Commission. 1/10/2021-31/12/2025. PI Villalba Méndez, Gara

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Promoting access to open urban agriculture from the Fertilecity lab to the city (SIRAH). PDC2021-121054-C21.  
Ministerio de Ciencia e Innovación (MICINN). 1/12/2021-31/5/2024.  
PI Gabarrell i Durany, Xavier

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PI Madrid López, Cristina

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ANNEX IV  
PRESS RELEASES  
(sent to media)

[in chronological order]

90% of textile waste generated by Catalonia’s population ends up in landfill or incinerators

12 January 2024

A pioneer project to create the first eco-friendly urea fertilizer from CO2 and nitrogen compounds

17 January 2024

Prehistoric human remains from South America help to uncover the origins of treponemal diseases

25 January 2024

Big oil companies continue to expand fossil fuel extraction worldwide

2 February 2024

It’s true, happiness doesn’t cost much

6 February 2024

11F at ICTA-UAB: “Women in Science: when superpowers are real”

11 February 2024

Neolithic groups from the south of the Iberian Peninsula first settled in San Fernando (Cadiz) 6,200 years ago

15 February 2024

The GreenME project to analyze the role of nature-based health therapies in addressing mental health

23 February 2024

Advancing climate change research and policy demands knowledge from Indigenous Peoples and local communities

27 February 2024

The international scientific community to debate the dichotomy between economic growth and the fight against the climate crisis

6 March 2024

UAB to organize Growth vs Climate Conference 2024

7 March 2024

La primavera será dura para los alérgicos a pesar de la sequía y las altas temperaturas

11 March 2024

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[La ministra Teresa Ribera reivindica un diàlego solvente entre la comunidad científica y política frente a la crisis climática](#)

14 March 2024

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[What are the best Nature-Based Solutions in Spain to adapt to climate change?](#)

22 March 2024

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[Bike Bus gains supporters as a way to promote sustainable and safe mobility](#)

18 April 2024

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[The shells of marine molluscs reveal that prehistoric groups optimized available food resources](#)

19 April 2024

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[Isabelle Anguelovski, selected by the U.S. government for the First National Nature Assessment](#)

25 April 2024

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[A study highlights the importance of the relationship between people and plants](#)

29 April 2024

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[Size mattered in early commercial fisheries in Brazil](#)

8 May 2024

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[Women's voices enhance small-scale fisheries management](#)

13 May 2024

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[El ICTA-UAB promueve la ciencia ciudadana y la sostenibilidad en Cerdanyola del Vallès](#)

3 June 2024

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[75% of environmental conflicts recorded in EJAAtlas occur in low-income countries](#)

12 June 2024

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[ICTA-UAB launches new visual identity](#)

4 July 2024

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[Early Pyrenean Neolithic groups applied species selection strategies to produce bone artefacts](#)

11 July 2024

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[Severe droughts limit Amazonian communities' access to basic services](#)

12 July 2024

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[70% of households with children regularly waste food](#)

15 July 2024

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[Earth BioGenome Project to sequence the genome of nearly 40,000 plant, animal and fungi species in Catalan-speaking territories](#)

22 July 2024

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[Good lives can be provided to the whole world's population while reducing environmental damage](#)

25 July 2024

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[Massive appropriation of labor from the Global South enables high consumption of rich countries](#)

29 July 2024

[Improved predictions of methane gas emissions in tidal wetlands](#)

5 September 2024

[The central role played by Indigenous Peoples in biodiversity conservation needs to be properly and accurately recognized by science](#)

10 September 2024

[Prosperity for planet is possible if Earth's critical resources are better shared](#)

16 September 2024

[The number of stolen bicycles in Barcelona increases by 34%, reflecting the vulnerability of this sustainable transport](#)

17 September 2024

[Emptied Spain: 2,858 towns, 21% of the territory, are more vulnerable to climate change, depopulation and globalization](#)

1 October 2024

[Response to Mongabay's recent coverage of the 80% figure](#)

3 October 2024

[Compost produced from organic solid waste could replace 21% of industrial fertilizers in urban agriculture](#)

23 October 2024

[Decline in West African coastal fish stocks threatens food security](#)

14 November 2024

[Climate change threatens key ocean plankton groups](#)

14 November 2024

[ICTA-UAB oceanographic expedition provides evidence on the atlantification of the Arctic Ocean](#)

20 November 2024

[Exceptional discoveries on prehistoric archery from 7,000 years ago](#)

5 December 2024

[Planet in Peril: IPBES Report Reveals Options to Achieve Urgently Needed Transformative Change](#)

20 December 2024



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