NEWSLETTER #1 | 2023

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Dear CIRCOMOD Newsletter Readers,

We are thrilled to kick off the first edition of the CIRCOMOD newsletter, your gateway to our work on sustainable circular economy modelling for climate change mitigation! In this inaugural issue, we're excited to introduce you to the CIRCOMOD project and to the activities it has been covering.

*In a world grappling with the relentless challenges of climate change and resource depletion, the need for innovative solutions and polices has never been more pressing. The CIRCOMOD project, short for "**Circ**ular E**co**nomy **Mod**eling for Climate-Oriented Strategies," is a groundbreaking initiative that seeks to explore and understand the power of Circular Economy (CE) to combat climate change and transform the consumption patterns.*

Through rigorous research, robust data, forward-looking scenarios and policy insights, CIRCOMOD is set to provide a vision for policy and industry actors on how to transform and address climate change and environmental challenges with circular solutions, regulatory measures, behavioural change. Together, we can build a circular future that respects planetary boundaries and secures a better world for generations to come.

Stay tuned for future updates on CIRCOMOD's progress, exciting breakthroughs, its pivotal role in shaping climate and Circular Economy policies on both European and global fronts, and opportunities to get involved.

Thank you for being a part of our community!

If you want to inquire more information about the project, explore http://circomod.eu/

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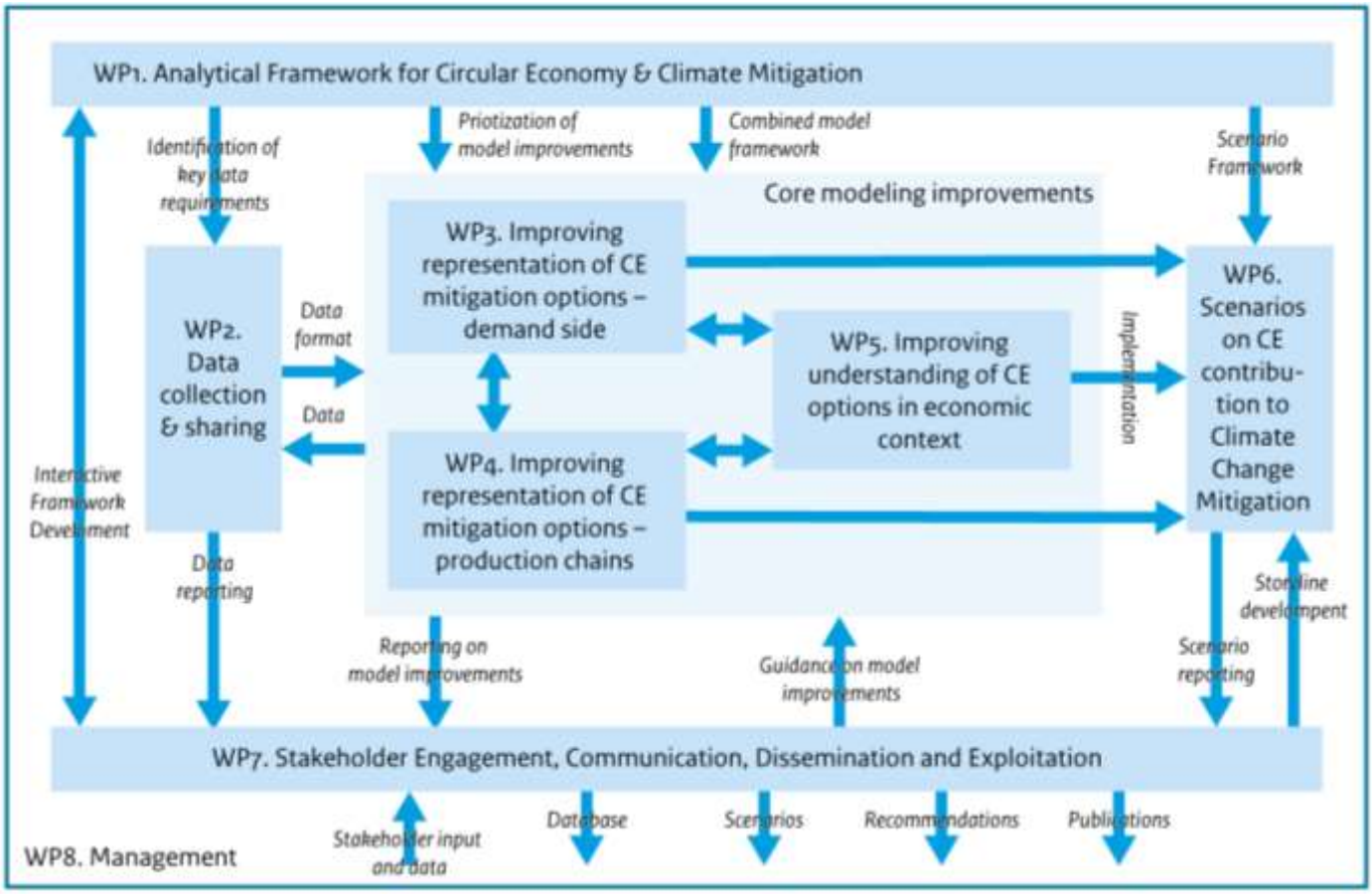
Introducing the CIRCOMOD Project: Mapping Circular Pathways for Sustainability

Embarking on its journey a year ago, the CIRCOMOD project charts a course that extends until mid-2026, under the financial umbrella of the EU's Horizon Europe program. This visionary project encapsulates a holistic vision of sustainability, poised to revolutionize how we perceive and engage with circular economy strategies.

Project at a Glance:

CIRCOMOD's core mission is to illuminate the intricate interplay between circular economy strategies, greenhouse gas emissions, and resource efficiency. With a panoramic lens, the project spans diverse materials, sectors, individual EU countries, and global scales. An ingenious framework melds state-of-the-art material systems models with influential climate change mitigation models, both of macroeconomic and process-based origins. This hybrid approach crystallizes into a scenario model framework, capable of dissecting product systems and material cycles. By doing so, the project embarks on a comprehensive evaluation of circular economy strategies, illuminating their profound contributions to mitigating greenhouse gas emissions.

The fruits of CIRCOMOD's labor will not be confined to academia; the project actively shares its input data and findings to empower policy analysts and scientific communities alike. This dissemination is channeled through a dynamic data hub, policy briefs, and direct engagements with policymakers. To holistically capture the essence of circular economy strategies, assessment results will weave into Comprehensive Circular Economy profiles. These profiles paint a simplified yet illuminating portrait of the potential material and greenhouse gas savings brought forth by different circular economy strategies.



Unveiling the Consortium:

At the heart of **CIRCOMOD** lies a consortium, a collaboration of 12 dynamic and visionary organizations from 7 EU countries. This harmonious assembly of minds encompasses a rich tapestry of expertise that spans the breadth of knowledge and innovation. From the illustrious halls of Utrecht University, NOVA University of Lisbon, Leiden University, the University of Freiburg, the Norwegian University of Science and Technology, Tilburg University, Pforzheim University, to the forward-thinking powerhouses like E3M, SYSTEMIQ, Euro Mediterranean Center on Climate Change, Netherlands Environmental Assessment Agency and the innovative trailblazers at Power Algae LLC, each consortium member brings to the table a distinct, invaluable perspective, delving into an array of model paradigms encompassing Material Flow Analysis, Climate Change Mitigation, Macroeconomic Modeling, Behavioral Insights, Circular Economy Dynamics, and the Blue Economy. Each member of our consortium stands as a beacon of excellence in their respective fields, contributing their unique insights and capabilities to the monumental task at hand.

Distinguished by their contributions, several consortium members have been instrumental in shaping the climate mitigation scenarios that reverberate within the global research community. Furthermore, our consortium enjoys a seamless connection to two influential powerhouses in global environmental research: the UNEP International Resource Panel (IPR) and the International Panel for Climate Change (IPCC).The brilliant researchers within our consortium bear the esteemed titles of Lead Authors or Contributing Authors for the IPCC AR reports, further cementing our influence on the global stage.

But our consortium's impact goes far beyond the ivory towers of academia. We extend our support to national and European governments, fostering a synergy in the vital realms of energy and climate policy. As CIRCOMOD unfolds its panoramic narrative, it illuminates pathways toward a circular economy that treads lightly on the planet, setting a resounding example for sustainability on a global scale.

If you're interested in learning more about our consortium and its members, we invite you to explore our team by visiting our website at http://circomod.eu/our-team/.

CIRCOMOD Data Hub: Unveiling a Working Prototype for Circular Economy Visuals

We are thrilled to share a major milestone in the CIRCOMOD initiative – the launch of the CIRCOMOD Data Hub's working prototype for circular economy visuals. At the heart of CIRCOMOD's mission lies the robust collection and dissemination of data, and this latest advancement underscores our commitment to facilitating a more sustainable future.

Building a Comprehensive Circular Economy Database

Central to CIRCOMOD's mission is the meticulous curation and sharing of data. We are in the process of developing a comprehensive circular economy database, drawing from a wealth of data within our team and supplementing it with additional quantitative insights into circularity potential. This database is a reservoir of valuable information, focusing on integrating circular economy-relevant data related to products and processes. This entails information about material efficiency potential in various sectors and circular economy strategies to curtail primary material consumption.

The Launch of the CIRCOMOD Data Hub

Since mid-2023, the CIRCOMOD Data Hub has been operational, providing an invaluable resource for researchers and stakeholders alike. You can explore it firsthand at http://circomod.eu/circomod-data-hub/. The Data Hub's development owes credit to our colleagues at the Industrial Ecology group at Freiburg University (IEF), who have meticulously designed it to be both user-friendly and informative.

Visualizing Circular Economy Scenarios

A standout feature of the Data Hub is the Sankey diagram, crafted to exhibit and experiment with various visualization techniques for our circular economy scenarios. Professor Stefan Pauliuk, the visionary behind the data work for CIRCOMOD at IFE, emphasizes the pivotal nature of this Data Hub launch as an infrastructural leap forward. He and his team at Freiburg continue to work tirelessly on refining real-time results and expanding visualization options. Their ultimate goal is to seamlessly integrate these visualizations into the Circular Economy homepage in the next phase of our project.

A Journey Ahead

Looking ahead, the CIRCOMOD team invites our esteemed partners to contribute their own results, which will then be integrated into the Data Hub's visualization channels by our colleagues at IEF. This collaborative approach ensures that diverse models and insights produced by various CIRCOMOD teams can be effectively visualized and communicated.

As we venture into the latter half of the project, our focus will shift toward integrating multi-disciplinary assessment outcomes into comprehensive Circular Economy profiles. This dynamic integration promises a more holistic understanding of the circular economy landscape and will pave the way for informed decision-making and transformative action. Stay connected with CIRCOMOD's journey as we continue to champion data-driven insights and innovative visualization methods, ultimately propelling us closer to a circular and sustainable future.

Helping stakeholders: Collaboration with European Environmental Agency

The European Environment Agency (EEA) stands as a guiding force in its mission to provide methodological assistance to European Member States in formulating their National Energy and Climate Plans (NECPs). These pivotal 10-year plans outline how EU countries intend to align with the ambitious energy and climate targets set for 2030.

Embedded within the NECPs is the commitment to fulfill the Energy Union objectives, which encompass the EU's 2030 energy and climate aspirations. These include imperative benchmarks such as a minimum 32% target for renewable energy and a minimum 32.5% goal for energy efficiency, as mandated by the Governance Regulation, Energy Efficiency Directive, and Renewable Energy Directive. A biennial progress report is the requirement, adhering to the predefined structure, format, technical intricacies, and procedural guidelines laid out in the Implementing Regulation. Within this framework, the European Commission will holistically monitor the collective advancement of the EU towards these crucial targets.

NECPs serve as blueprints detailing how EU countries are poised to address vital facets like energy efficiency, renewable integration, curbing greenhouse gas emissions, bolstering interconnections, and fostering research and innovation. As circular economy initiatives gain traction within member states, an increasing realization emerges about the profound role of circular economy in curtailing and mitigating greenhouse gas emissions, thereby contributing to overarching climate goals.

In recognition of this synergy, the European Environment Agency (EEA) has underscored the necessity to integrate circular economy activities' potential into the methodologies underpinning NECP-related assessments, forecasting, and reporting. This entails quantifying the plausible reduction in greenhouse gas emissions linked to circular economy endeavors across each EU nation. As part of this initiative, the EEA has engaged with the CIRCOMOD team to explore how the project's modeling endeavors can offer tangible support to EU member states in this regard.

Collaboration between the CIRCOMOD and EEA teams has materialized through productive discussions spanning two phases. These dialogues have explored avenues for supporting Member States in seamlessly incorporating circular economy strategies within their NECPs. With the CIRCOMOD project making significant strides in model development and testing, it is primed to provide pragmatic solutions and methodologies to the teams responsible for crafting NECPs in member states.

The ongoing partnership between CIRCOMOD and EEA holds immense promise. As these dynamic initiatives continue to evolve, they signify an integral step forward in forging a sustainable and climate-resilient future for the European Union.

Empowering Circular Plastics Modeling: A Recap of the Collaborative Workshop

A remarkable stride in the CIRCOMOD project's collaborative efforts came to fruition with the convening of the workshop titled "Empowering Circular Plastics Modeling for the Netherlands and Beyond." This engaging event was co-organized in partnership with the PBL - Netherlands Environmental Assessment Agency's research program focused on monitoring and evaluating the circular economy.

Held on the 23rd of June 2023, the workshop provided a platform to assess the current best practices and challenges inherent in modeling the circular economy within the plastics value chain. Esteemed experts in the realms of system dynamics modeling, integrated assessment modeling, and computable general equilibrium modeling were invited to contribute their insights.

This workshop played a pivotal role in the ongoing exploratory work aimed at advancing the representation of the circular economy. It fostered discussions around the latest developments in this domain and identified key scientific and representational challenges specific to modeling circular plastics. The participants formed a diverse cohort of quantitative modeling practitioners who shared their experiences in the intricate task of modeling circular (plastic) value chains.

Central to the workshop's agenda was an overview of existing modeling capacities and contemporary practices. The forum offered a dedicated space for discussing and taking stock of the challenges and opportunities that lie ahead.

Kicking off the proceedings, Dr. Mariësse van Sluisveld (PBL) provided an insightful overview of various modeling perspectives and their collective contributions to enhancing our understanding of circular plastics modeling. Dr. Oreane Edelenbosch (Utrecht University) delved into the challenges that the CIRCOMOD consortium aims to address, setting the stage for further discussions.

Dr. Corjan Brink (PBL) presented the process of establishing a cohesive framework capable of evaluating the efficacy of circular economy policies developed within the framework of the Dutch research program 'Monitoring and Evaluating the Circular Economy.'

Dr. Paul Stegmann (TNO) took the floor to discuss his endeavors in developing Paris-aligned scenarios for climate change mitigation, with a specific emphasis on the plastics value chain.

The workshop not only facilitated insightful talks on specific research advancements but also underscored the imperative for coordination and knowledge exchange across diverse communities. A unanimous consensus emerged among the experts – the current research landscape falls short of comprehensively addressing plastic value chains across spatial scales and product categories. Furthermore, there's a recognized dearth of attention to the more intricate facets of circular economy strategies.

The resounding call for collaboration and knowledge sharing reverberated throughout the discussions. It's universally acknowledged that such cooperation is vital to bridging gaps in our understanding and rectifying project-specific and parametric biases. These biases often affect the assessment of production, utilization, substitution, and waste management dynamics within the realm of plastic (secondary) material. As we reflect on this workshop, it becomes evident that the path forward involves collective efforts, interdisciplinary collaboration, and a shared commitment to refining the modeling landscape for a more sustainable and circular future.

Big presence of CIRCOMOD team at ISIE2023 conference

Undoubtedly the most important global scientific gathering for the CIRCOMOD team was ISIE2023 - the 11th biennial conference of the International Society for Industrial Ecology (ISIE) held in Leiden 2-5 July 2023 (https://isie2023netherlands.nl/). This event offers an opportunity for the integrated assessment and industrial ecology researchers from all over the world to get together and share their research achievements.

The conference, themed "Transitions in a World in Turmoil", highlighted the crucial need to steer toward sustainable energy and resource practices. Given today's environmental challenges, urgent action is required to reshape our energy systems for climate neutrality and create sustainable approaches to land, water, and resources. Transitioning to a circular economy with fairness at its core emerges as the beacon of hope to prevent further environmental harm.

During the conference, participants discussed the challenges the world is facing, the changes that are necessary to remain within planetary boundaries, and the solutions that could be employed in technical, behavioural and organisational sense to meet these challenges.

The CIRCOMOD project seized this momentous occasion with a resounding presence at ISIE2023. Dr. Tomer Fishman and Prof. Ester van der Voet of Leiden University, alongside their academic compatriots, hosted this prestigious conference. Janez Potočnik, representing the UNEP International Resource Panel and Systemiq, delivered a keynote speech, lending insightful perspectives on the conference's inaugural day.

Oreane Edelenbosch, the CIRCOMOD leader from Utrecht University has chaired a session and presented an analytical framework to assess circular action contributing to climate change mitigation that she and other colleagues have been working on under CIRCOMOD.

The hosts, Leiden University, had a formidable lineup of presenters, including Tomer Fishman's study on building material stocks and Martijn van Engelenburg's exploration of circular infrastructure.

Stefan Pauliuk, a key figure from Freiburg University team, exhibited a conceptual model linking well-being and prosperity to service provision within the energy service cascade, while Johan Velez, his colleague, unveiled insights into securing decent living standards without triggering undue material demands.

The CIRCOMOD team's contribution continued to unfold as researchers from Leiden, NTNU, CMCC, Freiburg presented their works. Meng Zhang (NTNU) showcased an in-depth analysis of Material Footprints of Machinery Capital, illustrating the intricate dynamics at play across global economies. Edgar Hertwich (NTNU) delved into aligning policy responses to rising energy prices with the overarching goal of long-term climate neutrality. Darius Corbier presented the CIRCular Energy Economy (CIRCEE), a stylized dynamic general equilibrium model that keeps track of physical material and waste flows/stocks and incorporates key elements of industrial ecology.

The legacy of ISIE2023 resonates with Tomer Fishman and René Kleijn, the conference co-chairs, who jointly reflected, "With over 850 passionate individuals from around the world, we made waves! The conference celebrated the power of Industrial Ecology in finding science-based solutions for sustainability problems. We, scientists, need to stick together and work towards a better future in this turbulent world."

The International Society for Industrial Ecology (ISIE) https://is4ie.org/ promotes industrial ecology as a way of finding innovative solutions to complicated sustainability problems, and facilitates communication among scientists, engineers, policymakers, managers, and advocates who are interested in better integrating sustainability concerns with economic activities. The mission of the ISIE is to promote the use of industrial ecology in research, education, policy, community development, and industrial practices.

Presence at other events

CIRCOMOD team members have been actively sharing their research at various events to enhance visibility and strengthen the research network:

- Oreane Edelenbosch (UU), Vassilis Daioglou (PBL), and Detlef van Vuuren (UU/PBL) presented CIRCOMOD at the Integrated Assessment Consortium (IAMC) conference, November 2022.
- Etienne Lorang (TiU) took part at the roundtable organized by the Sypred - French Union of recycling professionals for dangerous waste on the topic of "Consistency of public policies with global limits planetary limits" in November 2022.
- Detlef van Vuuren presented analysis contributing to the IPCC Mitigation Scenarios at UNFCCC COP27 (November 2022).
- Darius Corbier (CMCC) presented his work at the International IAM modelling workshop at Seoul, South Korea, and Industrial Ecology Day (December 2022).
- Oreane Edelenbosch presented the project at the Circular Economy Festival, an initiative of the Towards a Circular Economy and Society hub, October 2022.
- Etienne Lorang and Reyer Gerlagh showcased their work at the European Association of Environmental and Resource Economists conference in June 2023.

Clustering with sister projects

Within the realm of Horizon Europe, CIRCOMOD is not a lone crusader on the path of integrating circular economy principles into climate modelinsg. Sister projects, equally empowered by EU approval and funding, have risen to the forefront: CircEUlar (https://circeular.org/) and CO2Nstruct (https://co2nstruct.dtu.dk/).

CircEUlar is developing new modelling approaches for analysing circularity from a systems perspective accounting for dematerialisation and the transition to a service-based economy, repair, maintenance, reuse, waste treatment and material recycling. It also studies digitalisation as a potential enabler of dematerialisation and supply chain circularity.

The CO2NSTRUCT project focuses on the construction sector which is one of the world's largest consumers of energy and raw materials. It addresses the current shortcoming of the construction material focused climate mitigation models that are most suitable for assessing linear patterns of economic activity. The project aims to augment these models with circular economy measures, boosting their capability to generate and assess circular options. It focuses on six pervasive carbon-intensive materials: cement, steel, brick, glass, wood, and insulation materials.

A Tapestry of Collaboration:

From their inception, the teams driving CIRCOMOD, CircEUlar, and CO2NSTRUCT have interwoven a fabric of collaboration. A notable arena for coordinated action emerges in the outreach to industry and policy stakeholders. Anticipating synergies and efficiency, these projects aim to disseminate research findings and recommendations to these pivotal stakeholders.

The consortiums behind these projects envisage joint events and collaborative working sessions as powerful tools for mutual growth. A momentous stride in this collaborative journey materialized through the joint event of CIRCOMOD and CircEUlar consortiums in Venice during April 2023 (details outlined in the following article).

A Milestone meeting of CIRCOMOD and CircEUlar in Venice

Towards synergies in two projects

On 17-19 April 2023, Venice hosted a big team of circular economy and climate modelers from two sister projects CIRCOMOD and CircEUlar. The meeting was a follow up of a series of online meetings and became the first face to face interaction of the project teams working on the same challenge: to understand role of the circular economy in reaching climate neutrality.

During the collaborative workshop, the CIRCOMOD and CircEUlar researchers identified diverse areas of collaboration, including mobility and buildings research, data formats and sharing, conducting surveys, and jointly engaging with relevant stakeholder groups. Numerous ways to capitalize on knowledge and experiences for achieving the common goals of promoting a societal transformation towards a net-zero emission circular economy and identifying strategies for climate change mitigation were identified.

Socializing in between work meetings and at dinners further eased interaction between the researchers, which we believe will help to build stronger ties necessary for future cooperation.

Beside the joint activities CIRCOMOD partners had internal sessions where they discussed the ongoing work, coordination, and alignment of approaches and thematic scoped across the work packages, data sharing and data infrastructure, as well as what project can offer to public and private stakeholders and what input is needed from them.

This event was kindly hosted by the project partner CMCC.

What we explore, discuss, share within the team

From the moment of project initiation, CIRCOMOD has fostered an atmosphere of collaborative exploration, discussion, and knowledge exchange within its multifaceted team. Embracing teams of modelers from various modeling traditions, the project has orchestrated cooperation through regular meetings and internal workshops. These platforms not only facilitate mutual learning but also provide the canvas for aligning visions and synchronizing efforts across the team.

CIRCOMOD's first workshop, September 2022: What we should know about the models covered in CIRCOMOD

Three months after the start of the project, the team of modelers from CIRCOMOD came together in an online workshop to learn more about each other's work, models, structure, different strategies for the circular economy, and to explore the complementarities of the models covered under the project. The discussion revealed that while the models have different intentions, such as understanding the interaction between human development and nature, showing material stock dynamics, examining the impact on climate policy, meeting energy demand, as well as the temporal scope and methods, there are many points on which CIRCOMOD's further work can build.

Read further about the workshop discussion at http://circomod.eu/circomods-first-workshop-29-september-2022/.

CIRCOMOD's second workshop, 5 December 2022: Towards the common vision and narrative in modelling

One of the core discussions focused on the headline and stories that can be offered by CIRCOMOD that would be most valuable to policy makers in driving the transition to a circular and low carbon economy. Further discussion was about connecting story, impact, and model development. Special sessions were devoted to visioning and scoping within the model and scenarios, impact categories, R-strategies, regional, sector and material coverage. Another highlight of the workshop was the presentation of stylized models developed by each group.

Read further about the workshop discussion at http://circomod.eu/circomods-second-workshop-5-december-2022-towards-the-common-vision-and-narrative-in-modelling/.

Internal Workshop on EXIOBASE database in the context of the CIRCOMOD project (June 2023)

Decoding EXIOBASE: Internal CIRCOMOD Workshop (June 2023)

Within the dynamic journey of the CIRCOMOD project, the pursuit of objectives is marked by an unceasing spirit of exploration, sharing, and collaborative learning. As a collective of experts, each well-versed in specific methodologies, data, and resources, the project team thrives on routine communication and the orchestration of specialized workshops. An exemplar of this proactive spirit unfolded on the 22nd of June 2023, when an online workshop brought together more than 15 researchers representing various CIRCOMOD partner organizations. The focal point of this session was to present the intricacies of the EXIOBASE database and its profound utility within the project's landscape.

Decoding EXIOBASE

EXIOBASE is a global, detailed Multi-Regional Environmentally Extended Supply-Use Table (MR-SUT) and Input-Output Table (MR-IOT). It was developed by harmonizing and detailing supply-use tables for many countries, estimating emissions and resource extractions by industry. Subsequently the country supply-use tables were linked via trade, creating an MR-SUT and producing an MR-IOT from this. The MR-IOT can be used for the analysis of the environmental impacts that are associated with the final consumption of groups of products. The workshop was structured into three distinct sessions, each offering a unique facet of understanding. Richard Wood and his NTNU colleagues inaugurated the proceedings with an illuminating presentation, shedding light on the nuances of the EXIOBASE database. Their discourse spanned the extensions and the future applications of this database within the CIRCOMOD framework.

Darius Corbier from CMCC and Dimitris Kapetanakis from E3M then shared their insights from a modeler's perspective. They delved into the role that the EXIOBASE database plays within Computable General Equilibrium (CGE) models, illuminating how these models simulate the intricate dynamics of the circular economy. The session became a melting pot of ideas, interventions, and engaging queries from the participants.

Charting Future Pathway

The workshop concluded with a strong sense of agreement and collaboration. Partners, particularly those involved in developing EXIOBASE, pledged to exchange information to integrate it into CGE models, enhancing the project's capabilities.

Amidst this, the CIRCOMOD project thrives, benefitting from the synergy of minds and knowledge. With each step, it forges a path toward a circular and sustainable future, empowered by collaboration and shared insights.

Unveiling Deliverables

Review of CE policy questions and current knowledge gap and review of circular economy (CE) measures:

The CIRCOMOD project is reaching a critical stage, providing vital insights into the circular economy (CE). We're focused on policy reviews, knowledge gaps, and a comprehensive assessment of CE measures.

From the project's start, our goal has been to create a holistic analytical framework connecting various models. This helps us understand economic activities, material flows, the energy system, CE measures, and their impact on greenhouse gas emissions, a cornerstone for grasping their interconnectedness.

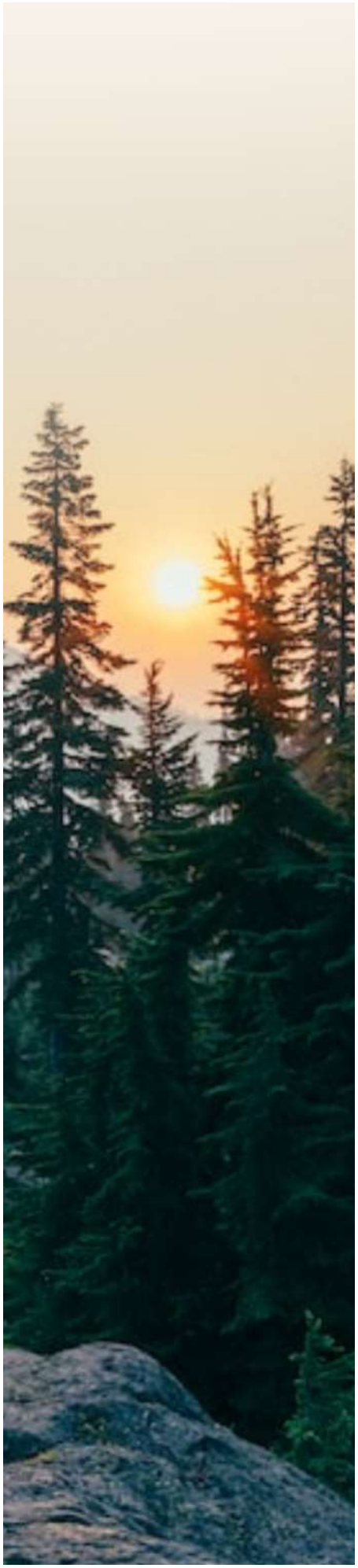
Under the guidance of Patrícia Fortes from NOVA University Lisbon and Marianne Zotin from Utrecht University, the project team presents an insightful report housing three comprehensive literature reviews, each casting a spotlight on:

- the most relevant EU policies regarding CE (and some examples beyond EU), identify the strategies, sectors and products involved and the CE metrics necessary to monitor their achievement,
- the most relevant CE measures to GHG and/or materials reduction in supply- and demand-side sectors, its potentials, relevant characteristics, and possible application barriers,
- the strengths and weaknesses of the most common modelling approaches used to quantitatively assess the impact of CE strategies and analyse the capabilities of the modelling approaches used within CIRCOMOD to assess CE.

These reviews stand as milestones, guiding the CIRCOMOD journey toward a circular future. They pinpoint existing policy questions, knowledge gaps, and pave the way for CE measures that underpin our path.

For the inquisitive, the full report awaits at http://circomod.eu/navigating-our-milestones-review-of-ce-policy-questions-current-knowledge-gap-and-review-of-circular-economy-ce-measures/

Discover Our Blog: A Gateway to Insights



In the realm of the CIRCOMOD project, the horizon extends beyond scientific deliverables. Our mission encompasses the endeavor of sharing knowledge beyond academic confines, resonating with policy makers, citizens, NGOs, and researchers from diverse disciplines. To this end, we present our blog articles – an avenue that bridges the gap between intricate research and accessible understanding.

How will a sustainable circular economy look like? (http://circomod.eu/how-will-a-sustainable-circular-economy-look-like/). The author, Stefan Pauliuk, professor of industrial ecology at the University of Freiburg, discusses how the circular economy works, why our economy is not more circular, and the role of science in creating a circular economy.

Macroeconomics and physical consistency (http://circomod.eu/macroeconomics-and-physical-consistency/). In this article Etienne Lorang and Reyer Gerlagh from Tilburg University explain how macroeconomic models, namely the "Computable General Equilibrium" (CGE) model are being deployed to understand better the circular economy possibilities.

The need for broadening mitigation strategies (http://circomod.eu/the-need-for-broadening-mitigation-strategies/), authored by Detlef van Vuuren, the scientific leader of CIRCOMOD, a professor Utrecht University and a senior researcher at PBL Netherlands Environmental Assessment Agency. He discusses the significant potential that CE can offer in climate change mitigation and how CIRCOMOD project would try to bring comprehensive evidence to this.

Discover our Blog:

These articles, vibrant with insight, find their home on our website: http://circomod.eu/category/blog/. Here, the complex is distilled, the profound made approachable, and the knowledge shared widely. Step into our blog, where understanding blooms, and the intersection of research and real-world impact comes alive.

Upcoming events

- Sixteenth Integrated Assessment Consortium (IAMC) Annual Meeting, November 14th - 16th, 2023, Venice, Italy https://www.iamconsortium.org/event/sixteenth-iamc-annual-meeting-2023/. Registrations will open in September 2023 and will close on November 25th, 2023.
- World Circular Economy Forum, Brussels in spring 2024.
- The ISIE Socioeconomic Metabolism perpetual online conference, July 09, 2020-July 09, 2025.
- CESifo Area Conference on Energy and Climate Economics 2024. 15 - 16 March 2024.

If you want to inquire **more information** about the project, explore http://circomod.eu/. Or contact: Oreane Edelenbosch: o.y.edelenbosch@uu.nl; Detlef van Vuuren: Detlef.vanVuuren@pbl.nl; Asel Doranova: A.A.Doranova@tilburguniversity.edu