



BIO CIRCULAR CITIES

Exploring the circular
bioeconomy potential
in cities

Report on Synergies

Deliverable D5.6 of WP5

Credits

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EXECUTIVE SUMMARY

The Report on Synergies aims to identify and leverage the relationships between the Biocircularcities (BCC) project and other relevant initiatives and projects in the field of bioeconomy. The report provides an overview of the activities undertaken by the project in terms of collaboration and interaction with other projects, as well as the benefits and outcomes of these interactions.

The report highlights the importance of establishing and maintaining synergies with other initiatives and projects such as Tech4Biowaste, WaysTUP, Phenolexa, HOOP, BIOMODEL4REGIONS, BioGov.net, DECISIVE, LIFE BIOBEST, BIOBOOST and Sustrack, to harvest from wider knowledge, escalate and maximize the learnings, enforce the wider uptake of the project outcomes, to avoid duplications in actions, and facilitate the dissemination of the project and its results by other initiatives and projects. The report also identifies some of the challenges and limitations of establishing these synergies and proposes some strategies to overcome these challenges.

The report highlights the significant progress achieved by the BCC project in establishing and nurturing synergies with other prominent initiatives and projects in the bioeconomy field. These collaborative efforts with sister projects have yielded notable outcomes, including heightened visibility and an expanded audience reach, thereby raising awareness about the importance of sustainable waste management practices and the availability of decision-making technologies. Moreover, these synergistic partnerships have fostered exchanges of knowledge and expertise among diverse stakeholders, facilitating the identification of gaps and opportunities in the realm of circular bioeconomy practices. The project's active participation in workshops and conferences, alongside the organization of a dedicated Synergy workshop and Joint Webinars, has further enabled connections with a variety of projects and initiatives, amplifying the promotion of BCC's goals and objectives. As a result, the project has effectively broadened its influence, deepened its impact, and made significant strides toward its overarching advancement.

AIM OF THE DELIVERABLE

The aim of BCC's deliverable on synergies was to identify and explore potential collaboration opportunities between the project and other EU-funded projects, with the goal of maximizing the impact of their collective efforts towards achieving a common goal - boosting circular bioeconomy. This deliverable highlights the importance of cross-project collaboration, as it allows for the exchange of knowledge, expertise, and resources. By working together, projects can overcome common barriers and challenges, identify, and capitalize on synergies, and ultimately, achieve their goals more effectively and efficiently. The report on synergies outlines the various activities and achievements that BCC has undertaken over the course of the project to promote collaboration and knowledge-sharing with other projects.

1. Introduction

The Biocircularcities project aims at promoting sustainable waste management practices and circular economy principles in cities. The project goal is to identify unexploited bio-based waste streams, analyze the state of the art of organic waste management, and develop new circular economy strategies in for three pilot cases: Metropolitan City of Naples (Italy), Metropolitan Area of Barcelona (Spain), and Province of Pazardzhik (Bulgaria). To achieve these objectives, a survey for 3 pilot cases was carried out to map (i) the existing sectors producing and managing biowaste, in order to select the three most relevant ones (1 for each pilot), and (ii) the relevant stakeholders involved in biowaste management chains (WP2). The environmental and economic sustainability of the selected biowaste streams was explored using Life Cycle Assessment (LCA) and Life Cycle Costing (LCC) analyses, based on the qualitative and quantitative data provided directly by the managers of the selected systems and by local public administrations (WP2). To provide policy recommendations at the pilot level (WP3), the project undertook a comprehensive assessment of barriers and drivers at European level and for the pilot areas at national, regional, and local level. In addition, to make its key outcomes available to other experts and decision-makers across Europe, a webtool was developed supporting the identification of the most suitable technological options for improving the management of municipal biowaste, agrifood losses, and forestry residues (WP4). The BCC tool relies on the matching between potential technological solutions' techno-economic, environmental, and social properties, and the economic, environmental, and political properties of the regional context in which the technology shall be implemented. The list of criteria considered to establish this matching system was established through the analysis of the **state of the art of the main drivers and barriers** towards the development of biocircular value chains for biomass waste management (D4.1), and on the experiences of the three pilot areas reflected during the various LL sessions organized every six months during the project, for each regional pilot (WP3 and WP5)

Considering the importance of promoting sustainable development and the circular economy, synergies between the BCC project and other EU-funded projects with similar objectives was highly beneficial. The collaborations, involving projects such as [LIFE BIOBEST](#)¹, [BIOBOOST](#), [WaysTUP](#), [Tech4Biowaste](#), [BIOMODEL4REGIONS](#), [Phenolexa](#), [BioGov.net](#), [HOOP](#), [DECISIVE](#), and [SUSTRACK](#), have resulted in tangible outcomes. These synergies have yielded innovative solutions that harness the unique strengths of each project, foster the sharing of best practices and valuable insights, and ultimately generate a wider-reaching impact. Through joint webinars, bilateral meetings, workshops, exchange of best practices, and cross-project dissemination, the BCC project collaborated with other projects to advance the goal of creating more sustainable and circular cities. The BCC project contributed its expertise and resources to other projects, helping to create a more integrated and cohesive approach to sustainable development across Europe.

¹ At the time of submitting the deliverable, the project's official website has not yet been launched.

2. Methodology

To establish synergies with other projects, we followed a systematic approach that involved several steps:

Identifying potential partners and EU-funded projects: We identified other EU-funded projects and relevant initiatives supporting the development and uptake of bio-based products at the European level through conducting a thorough search through CORDIS, project databases, websites, consortium networks, and social media channels. We have created a list of those projects by adding details of the project, timeline, consortium partners, main objectives, and common topics - potential to synergies (see ANNEX)

Contacting potential partners: Once we identified potential partners, we initiated contact by sending emails introducing our project and expressing our interest in collaboration.

Exploring collaboration opportunities: After establishing contact, we explored opportunities for collaboration by sharing information about our project and discussing areas of mutual interest. We identified potential synergies, including sharing of data and resources, joint webinars, disseminating each other's results, and joint proposals for funding.

Implementing collaboration: After identifying specific opportunities for collaboration, we joint forces to implement them. This involved coordinating meetings, sharing resources, and working together to achieve common goals.

Maintaining the partnership: To maintain the partnership, we continued to communicate with our partners regularly, providing updates on our project and exchanging information about relevant news and events. We also used each other's websites to increase visibility and disseminate project news.

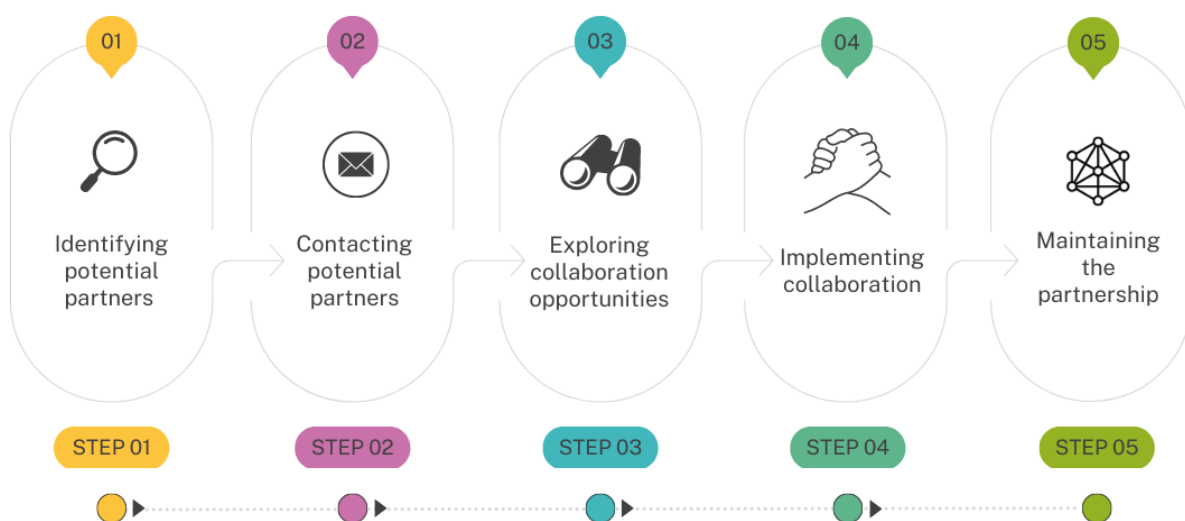


Figure 1: Synergy Methodology

3. Biocircularcities' Synergies

3.1 Building Synergies: Collaborating with Sister Projects in the Bioeconomy Field

This section provides a detailed account of the concrete synergetic actions undertaken by the BCC project with a focus on collaborations with specific sister projects. The following subsections delve into the specific collaborations with projects Tech4Biowaste, WaysTUP, Phenolexa, HOOP, BIOMODEL4REGIONS, BioGov.net, DECISIVE, LIFE BIOBEST, BIOBOOST and SUSTRACK shedding light on the achievements from these partnerships.

3.1.1 Tech4Biowaste

The BCC project has established synergies with Tech4Biowaste, a project that provides the bio-based industry with a comprehensive overview of existing and emerging technologies for biowaste utilization and valorization. The Tech4Biowaste technology database provides the bio-based industry with a complete overview of existing and emerging technologies for biowaste utilization and valorization. It contains up-to-date information and is accessible to everyone, providing valuable insights for a large number of stakeholders.

Tech4Biowaste has shared with us 36 different biowaste conversion technologies, including pre-and post-treatment. BCC has leveraged the database of Tech4Biowaste to assess existing and emerging technologies for biowaste utilization and identified potential technologies for biowaste management in urban areas by considering some of them for the webtool. Through this collaboration, BCC has been able to expand the scope of its Webtool, which provides guidelines and supports the definition and implementation of a better strategy and technologies for biowaste management according to bioeconomy, circularity, and sustainability principles. The inclusion of technologies from the Tech4Biowaste database such as Enzymatic hydrolysis, Industrial fermentation, Pyrolysis Solid state fermentation, Gasification, Hydrothermal process. Heterogenous catalysis Pulping, has allowed BCC to offer in the decision-support webtool a more diverse range of solutions to decision-makers and stakeholders, improving the efficacy and efficiency of biowaste management strategies.

Furthermore, the bilateral meeting in May 2023 between the two projects has provided an opportunity to explore synergies and ways to integrate our respective tools, such as combining the BCC webtool and Tech4Biowaste's feedstock-product matrix. This integration could result in a more comprehensive and user-friendly decision-making tool for identifying suitable biowaste conversion technologies based on specific feedstocks and products. The potential integration of these tools represents a promising opportunity for joint project development in the future, and more details will be provided in the Exploitation and Sustainability Plan (D5.7).

Additionally, Tech4Biowaste's involvement in the second webinar of the Biocircularcities Trilogy (details in section 3.2.3), focused on the BCC Webtool in action, will provide valuable insights and expertise in identifying the most

promising biocircular technological options, enriching the discussions and knowledge exchange during the webinar. Tech4Biowaste's involvement adds a new dimension to the webinar, providing real-world perspectives and enhancing the understanding of biowaste conversion technologies. The collaboration between BCC and Tech4Biowaste in this webinar highlights the power of synergy in sharing knowledge, promoting best practices, and fostering innovation in the pursuit of sustainable waste management solutions.

3.1.2 WaysTUP

The BCC and WaysTUP projects collaborated on multiple initiatives to promote sustainable waste management practices and circular economy principles. One such initiative in which the BCC and WaysTUP projects synergized was through the use of WaysTUP's deliverables as reference material for BCC's own deliverables— [D3.1 Policy framework and Good Practices on circular bioeconomy and biowaste management](#). Specifically, BCC has added two of the pilots analyzed in WaysTUP as two Good Practices on circular economy and biowaste management. They are 1) the development of a bio-technological patented technology together with PERSEO (European Patent EPO 2112226, USA Patent 8399228 B2 and international PCT WIPO 099038) to produce second-generation bioethanol from the organic fraction of MSW (PERSEO Bioethanol®, L'Alcúdia, Valencia, Spain), and 2) the creation of insect protein (protein -rich insect flour) from source-separated bio-waste and meat and fish by-products in Alicante (Spain). By highlighting WaysTUP's development of bio-technological patented technology and insect protein production as Good Practices, BCC was able to showcase the importance of innovation in circular economy and biowaste management. This not only helped to raise awareness of WaysTUP's work but also highlighted the need for collaboration between different projects and stakeholders in order to achieve a sustainable and circular bioeconomy. In addition, the BCC project also exploited [D1.4 Report on barriers for urban biowaste valorisation for biobased products \(state of play\)](#) as a base to identify some laws in Italy regarding bio-waste and that helped to further assess regulatory gaps for the report D3.1.

Another initiative we already discussed was writing a joint paper comparing the Life Cycle Costing (LCC) and Life Cycle Assessment (LCA) of the silverskin coffee chain with the LCC and LCA of the coffee process and waste after consumption. The idea was to provide a comprehensive evaluation of the environmental, economic, and social impacts of both processes and highlighted the potential benefits of integrating circular economy principles into the coffee industry. However, the publication of the paper is being delayed due to a lack of primary data on LCC and LCA at the time, and publication procedures which usually take some time. While the paper could not be published during the project lifetime, the collaboration between BCC and WaysTUP laid the foundation for future collaboration on similar topics and helped to advance knowledge-sharing in the field of sustainable waste management and circular economy principles.

Building on BCC's extensive research and identification of barriers and drivers at the European, national, regional, and local levels, BCC has reviewed a [questionnaire](#) developed by WaysTUP on barriers related to biowaste valorization for the production of biobased products. While BCC provided their feedback after the questionnaire had already been closed by WaysTUP, the insights gained from reviewing the questionnaire can still provide inspiration for future activities and initiatives. Additionally, WaysTUP has participated in our workshop on synergy

(details in Section 3.2.2). Their valuable contribution and engagement during the workshop provided diverse perspectives and insights, enriching the discussions on synergistic actions in the field of sustainable waste management and circular economy. The participation of WaysTUP further strengthened the collaborative spirit between our projects and fostered an environment of knowledge exchange and collective learning.

The synergy between BCC and WaysTUP has been mutually beneficial, as it has enabled the exchange of knowledge, experiences, and good practices, improved the quality of the deliverables, and increased the visibility of both projects. Although the joint paper could not be published during the project's lifetime, the collaboration between the two projects laid the foundation for future collaboration on similar topics. The review of WaysTUP's questionnaire by BCC, along with WaysTUP's participation in the synergy workshop, further strengthened the collaborative spirit and facilitated knowledge exchange, enhancing the collective understanding and fostering future initiatives in sustainable waste management and circular economy practices.

3.1.3 Phenolexa

Phenolexa's focus on agricultural waste streams that are not currently fully exploited for high-value bioactive compounds overlaps with BCC's focus on unexploited agri-industrial biowaste and circular solutions in Naples (Italy) piloting area. In order to leverage this overlap and establish synergies between our projects, we have collaborated with Phenolexa to increase our visibility and promote our shared goals. One of the ways we have done this is by utilizing each other's websites to share news and updates about our projects. The [news](#) about the BCC Webtool was shared on the Phenolexa website, which has resulted in a wider audience being reached and an increased level of engagement from stakeholders who share our vision for a more sustainable future. Additionally, they posted a [tweet](#) of our collaboration as sister project. Likewise, BCC has shared [news](#) of Phenolexa who aims to upgrade agricultural waste streams into high value products. This has helped increase visibility and promoted the sharing of knowledge and ideas between both projects and specifically about the agri-industrial waste stream.

Additionally, Phenolexa and BCC have leveraged their respective networks to reach a wider audience. By tapping into each other's network of stakeholders, we were able to broaden the reach of our project and engage with individuals and organizations that may have otherwise been difficult to reach. This approach has not only allowed us to disseminate information about our project more widely but has also created opportunities for collaboration and knowledge-sharing.

The collaboration between Phenolexa and BCC has proven to be mutually beneficial, with both parties benefiting from increased visibility and access to a wider network of stakeholders. Through collaborative efforts, we have been able to amplify the impact of our projects and raise awareness of the importance of sustainable waste management practices and circular economy principles.

3.1.4 HOOP

BCC and the HOOP project have a strong commitment to the development of a sustainable and circular economy. One of the ways we have collaborated with HOOP is by sharing news about their "[HOOP Lunch Talks](#)" and "[HOOP](#)

[Study Visit in Kuopio \(Finland\)](#)” through our communication channels. These talks provide a platform for experts and stakeholders to share their knowledge and experience on topics related to the circular economy. The Study Visit to inspire innovative solutions of waste management while providing opportunities for knowledge exchange, feedback, and lessons learned. By sharing this news with our network, we have helped HOOP to reach a wider audience and engage with stakeholders beyond their immediate circle.

In addition to sharing news about the HOOP Lunch Talks, these talks are organized by ACR+ who is also a partner of BCC. The consortium of BCC took advantage to leverage the network of the HOOP Network of Cities and Regions to share news on our project results. In addition, we plan to continue leveraging the HOOP network to promote the BCC’s webinars and final conference. By fostering these interactions, BCC has facilitated the exchange of best practices and helped to drive the development of sustainable waste management practices. These efforts have helped to strengthen the collaboration between our projects and contributed to reaching more directly organizations in charge of biowaste management across Europe.

Furthermore, in the development of the D3.3 Policy Recommendations, the BCC project has found valuable support and inspiration from the [ROOTS position paper](#), in which HOOP participated. The ROOTS position paper provides a wealth of best practice examples from various member projects, highlighting innovative approaches in the field of sustainable biowaste management and circular bioeconomy. By drawing upon the insights shared in the position paper, BCC has been able to strengthen the policy framework presented in D3.3.

3.1.5 BIOMODEL4REGIONS

BCC and BIOMODEL4REGIONS have established a fruitful partnership by exchanging experiences, strategies, and challenges on stakeholder engagement during our online meeting with APRE (consortium partner of BIOMODEL4REGIONS) in April 2023. We presented an overview of BCC and BIOMODEL4REGIONS project, followed by a discussion on how to engage with stakeholders in their co-creation workshops. BCC’s experience with livings labs and peer review sessions provided useful insights for BIOMODEL4REGIONS as they also engage with many different stakeholders in their 6 piloting regions. Specifically, sharing do’s and don’ts was very useful for a new project in order to avoid pitfalls and ensure dynamic and interactive workshops.

Furthermore, we have received support and recognition from BIOMODEL4REGIONS, who posted a [tweet](#) on their official Twitter account about our online meeting, with a direct tag to BCC. This acknowledgment demonstrates the growing recognition of our collaborative efforts and highlights the significance of our work in promoting sustainable waste management practices and circular economy principles across different projects and initiatives. We shared the logo of our respective projects and a short description of our contact details and social media accounts. This way, we were able to leverage each other’s networks and increase the visibility of our projects.

Moreover, BCC participated in the joint webinar organized by BIOMODEL4REGIONS on [“Stakeholder Engagement in Bioeconomy-related Projects,”](#) which took place on June 22nd, 2023. The webinar brought together various projects, including [COOPID](#), [ROBIN](#), [CEE2ACT](#), and [ShapingBio](#), with the common goal of sharing insights and

experiences in stakeholder engagement between advanced and new projects. During the webinar, BCC had the opportunity to present “Stakeholder Engagement through Living Labs, Peer Review Sessions, and Advisory Board.” BCC shared knowledge and expertise in engaging stakeholders throughout the different stages of the project, highlighting the significance of living labs, peer review sessions, and advisory board involvement. As the BCC project is already very far advanced, advice was given on interactive activities for on-site meetings and tools for online meetings. The BCC aim was to contribute to the collective understanding of effective stakeholder engagement strategies in the bioeconomy sector. It was a valuable platform to learn from one another’s experiences, identify common challenges, and explore innovative approaches to stakeholder engagement.

Lastly, we shared the contact details of our sister project BioGov.net with the aim of connecting them and BIOMODEL4REGIONS to collaborate regarding Communities of Practices (CoP). This collaboration is expected to yield positive results for both projects as they share similar goals and objectives.

3.1.6 BioGov.net

BCC and Biogov.net collaborated to disseminate the results of their projects through their European Communities of Practice network. BioGov.net is an EU-funded project that aims to improve governance and create sustainable policies for the bioeconomy sector. One of the key objectives of the project is to create a European [Community of Practice \(CoP\)](#) on bioeconomy governance, which is a network of stakeholders from different sectors who shares their knowledge, best practices, and experiences related to bioeconomy governance.

The BCC project found that there was a clear overlap between the objectives of Biogov.net and its focus on promoting sustainable waste management practices and circular economy principles in cities. Therefore, the projects collaborated to leverage the network of BioGov.net to disseminate the results of the BCC project and engage with a broader network of stakeholders across Europe, which included policymakers, industry leaders, and academics from across Europe. The projects shared their knowledge, experience, and expertise via online and face-to-face meetings on how to promote sustainable development and circular economy principles in the bioeconomy sector, and how to reach stakeholders working specifically in selected chains of BCC (municipal solid waste, agri-industrial waste, and forestry waste). In turn, the BCC project contributed to the BioGov.net goals by sharing its expertise in sustainable waste management practices and regulatory gap and opportunities for a circular bioeconomy at the local and EU level.

3.1.7 DECISIVE

BCC and the DECISIVE project have established synergies through a collaborative [online focus group](#) organized by ACR+, the consortium partner of BCC, on October 2021. The focus group aimed to address the current legal and economic barriers faced by local bioeconomy strategies, with a specific focus on the recovery of food waste into valuable products. Bringing together various EU projects working on food losses and waste, such as HOOP, FOODrUS, URBIOFIN, ROOTS, and BIOCIRCULARCITIES, the focus group provided a platform for knowledge exchange and discussion.

The collaboration between BCC and DECISIVE was particularly beneficial for BCC, which was still in its very early stages, to address circular challenges and promote the recommendations of the focus group within the framework of BCC activities. The exchange of ideas and experiences among the different projects allowed for a comprehensive exploration of circular bioeconomy potential in cities, specifically in relation to food waste recovery which was specifically relevant to our value chain in the Metropolitan Area of Barcelona.

BCC's literature review of existing tools for waste management systems in [D4.1](#) identified DECISIVE's decision support tool as a valuable resource to support policymakers to select the most suitable waste management system. In D4.1, DECISIVE was included among the 19 tools and guidelines analyzed, further highlighting its relevance and significance in the field. By acknowledging and incorporating DECISIVE as a valuable tool, BCC has not only expanded its knowledge base but also leveraged the expertise and insights provided by DECISIVE to enhance its own recommendations and contribute to a more comprehensive and effective approach to sustainable waste management and circular economy principles.

Through this synergistic collaboration, BCC gained valuable insights and recommendations from the DECISIVE project and other participants. These insights informed the further development and implementation of strategies to overcome legal and economic barriers in local bioeconomy initiatives, with a specific focus on transforming food waste into valuable products.

3.1.8 SUSTRACK

The synergy between the SUSTRACK and BCC projects brings together their expertise and common objectives in promoting the transition to a circular bioeconomy. SUSTRACK, with its focus on facilitating the shift from linear fossil-based systems to circular and bio-based systems, offers valuable insights into identifying barriers and providing solutions for the circular bioeconomy. This knowledge and experience align closely with BCC aim to support local players in their transition and overcome existing barriers.

The joint webinar participation of SUSTRACK in the BCC Trilogy, specifically in [Episode 1](#), provides a platform for sharing their overview of barriers and solutions in the circular bioeconomy. This collaboration allows for the exchange of knowledge, experiences, and best practices between the projects, fostering a collective understanding of the challenges and potential solutions in the field. By presenting together, SUSTRACK and BCC enhance the visibility and reach of their respective insights and contribute to a broader audience engagement.

From a synergy perspective, joint webinars serve as a catalyst for collaboration, allowing projects to leverage their complementary expertise, perspectives, and resources. The sharing of knowledge, ideas, and experiences creates an opportunity for mutual learning, innovation, and the identification of synergistic approaches. By joining forces in webinars, SUSTRACK and BCC enhance the impact of their individual efforts and contribute to a more cohesive and comprehensive understanding of the circular bioeconomy. This collaborative approach reinforces the

importance of synergies in advancing the circular bioeconomy agenda and driving sustainable and transformative change at local, regional, and global levels.

3.2 Connecting for a Sustainable Future: Biocircularities' Synergies via Conferences, Workshops, Joint Webinars

3.2.1 Synergies via Conferences

A cornerstone of BCC project was to explore and promote active collaborations with EC-funded projects and other organizations in bioeconomy. Active participation in and contribution to identified cluster projects and initiatives' activities is crucial for the success of any project. It enables the exchange of knowledge and expertise between different stakeholders, facilitates the identification of gaps and opportunities, and helps to promote the project's goals and objectives. In line with this, we have engaged in various activities and collaborations with leading players in the Italian bioeconomy. For instance, we held a 1:1 meeting with [SPRING](#) cluster to evaluate ideas and explore exploitation routes for BCC results, particularly in our Naples chain in Italy. This collaboration has enabled us to identify opportunities for further synergies and cooperation toward promoting the circular bioeconomy.

Moreover, we have participated in [Projects2Projects workshop](#) organized by European Bioeconomy Network and Biogov.net project, a proactive alliance of 140 EU-funded projects and initiatives that aims to promote, communicate and support the bioeconomy. BCC has participated in the thematic working group "Enabling the bioeconomy ecosystem at European, national and regional level (governance perspective)." By participating in this workshop, we have been able to network and collaborate with like-minded initiatives, share our experiences and insights, and identify best practices in the field of bioeconomy promotion. This has enabled us to gain new perspectives and ideas and strengthened our efforts toward promoting a sustainable and circular bioeconomy. Specifically, we have connected with BIOSWITCH, BIOMODEL4REGIONS, and Tech4Biowaste, and shared experiences about stakeholder engagement and tools to boost bioeconomy practices. Further synergies with these projects are explained in Section 3.1.

Furthermore, BCC has actively participated in several conferences, intensive knowledge circulation and sharing of the circular bioeconomy and sustainable waste management practices and connecting with different projects during such events. The table below summarizes the conferences that BCC participated in, and the topics presented. The table is meant to provide an indicative overview of the collaborations established by the project.

Table 1: The table below summarizes the conferences that Biocircularities participated in, and the topics presented.

| Conference Name | Date | BCC Partner | Topic and Synergies |
|---|--------------|-------------|---|
| SUM 2022 – Sixth Symposium on Circular Economy and Urban Mining | 20 May, 2022 | ENEA | Topic: BioCircularCities project: circular bioeconomy in urban contexts (Session C10) Synergies: knowledge sharing, network building, dissemination of preliminary selected biowaste chain |

| | | | |
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| Energy Transition – Cities and Regions in Action | 18-19 July, 2022 | REAP | Topic: Sustainable development of regions Synergy: knowledge sharing - results of 1 st Living Lab, announced and promoted the 2 nd Living Lab in the pilot region of Pazardzhik on September, 2022 |
| Circular Economy – the Number One Priority for the European Green Deal conference | 19-21 September, 2022 | REAP | Topic: Circular Economy and Society Synergies: shared lessons learned, living lab invitations with CIRECON project network |
| Circular Cities and Regions Initiative (CCRI) Thematic working group (TWG) | 8 March, 2023 | ENT | Topic: The progress of BioCircularCities project Synergies: knowledge sharing, network building, dissemination of webtool (WP4) and preliminary LCA & LCC (WP3) |
| World Conference on Recycling and Waste Management | 15-16 May, 2023 | ENT | Topic: Regulatory gap and opportunity analysis for a circular bioeconomy Synergies: knowledge sharing, network building, dissemination of results from D3.2 (WP3) |
| 2nd International Conference on Smart Technologies in Urban Engineering (STUE-2023) | 8-9 June 2023 | ENEA | Topic: Circular Bioeconomy in Urban Contexts Synergy: sharing best practices, knowledge exchange, dissemination of preliminary results from sustainability assessment (WP3) and BCC webtool (WP4) |
| BIOMETA 2023: Jornadas sobre Biometanización de RSU | 19 July 2023 | ENT | Topic: Analysis of legal barriers and opportunities for a circular bioeconomy: A case study on biomethane in the Barcelona Metropolitan Area Synergy: dissemination of results from D3.2 and D3.3 (WP3), best practice exchange on biomethanization, network building |
| Life Cycle Management Conference series 2023 edition (LCM2023) | 6-7-8 Sept. 2023 | LIST | Topic: BioCircularCities: Guidelines for the development of sustainable and circular solutions for the management of biowaste in urban areas Synergies: knowledge sharing, network building, dissemination of the BCC webtool (WP4). |

Overall, BCC's active participation in these conferences and workshops has helped to promote the project's goals and objectives, share knowledge and expertise, and facilitate the identification of exploitation routes and replication of results.

3.2.2 Workshop on Synergies between Biocircularities and other Bioeconomy-related Projects

As part of BCC efforts to foster collaboration with sister projects, during the third Peer Review Session, a presentational [Synergy workshop](#) on May 24th was organized, 2023, in Barcelona, Spain. BCC invited other bioeconomy-

related projects, including BIOBOOST, LIFE BIOBEST, and WaySTUP (synergies described in section 3.1.2) to share knowledge and experience with each other. The workshop aimed to share BCC lessons learned about online and on-site stakeholder engagement in bioeconomy-related projects through living labs, peer review sessions, and advisory boards, and to explore common interests for future collaboration. Throughout the workshop, participants actively participated in discussions, sharing their insights and lessons learned from their respective projects.

During the workshop, it was highlighted that BCC played a pivotal role in providing valuable resources for other projects. BCC for example, reviewed and utilized the report on regulatory gaps produced by WaysTUP as a starting point for BCC project, recognizing its relevance and significance in addressing regulatory challenges in the bioeconomy. LIFE BIOBEST highlighted the value of BCC [D3.2 Regulatory gap and opportunity analysis for a circular bioeconomy](#), which they used as a foundational resource to identify drivers and barriers for urban biowaste within their project. This cross-utilization of research outputs demonstrates the interconnectedness and mutual reinforcement among projects, where the findings and recommendations of one project become essential building blocks for others, fostering a collaborative and synergistic environment.

As the best way to exploit synergies between different projects would be to work together in a future joint project, a session was dedicated talking about ideas for potential future cooperation in European projects. BIOBOOST emphasized the significance of having a [matching tool](#) to give added value to company waste by connecting them to potential “partners”. This observation aligns with feedback received during the BCC Advisory Board meeting and 3rd Living Labs discussions, where participants suggested enhancing the BCC tool by incorporating options for users to identify companies working in the field and explore opportunities for synergistic collaborations. So, options for a future combination of different web-based tools such as the ones developed in BCC, BIOBOOST, and LIFE BIOBEST were discussed with the aim of creating a more comprehensive and effective platform for promoting synergies and facilitating collaborations in the bioeconomy sector. In addition, a tool integration would bring together the expertise and functionalities of all the tools, allowing stakeholders to access a more comprehensive and robust decision-support platform, which can be further developed and utilized to foster innovative and sustainable solutions in the field of bioeconomy.

Recognizing the potential synergies and complementary strengths of the tools and methodologies developed by WaysTUP, LIFE BIOBEST, BIOBOOST, and BCC, the workshop fostered discussions on merging these resources to further amplify their collective impact. Exploring the possibilities of combining and refining these tools opens up new avenues for driving sustainable and circular practices in the bioeconomy. The workshop showcased the power of synergistic efforts in advancing bioeconomy and reinforced the commitment to harnessing collective expertise to achieve a more sustainable and circular future.

3.2.3 Synergies via Joint Webinars

BCC will organize three webinars aimed at showcasing the progress, insights, and impact of the BCC project – the [Biocircularities Trilogy](#). Two of these webinars will be organized in collaboration with sister projects, [SUSTRACK](#) and [Tech4Biowaste](#), creating valuable synergy and knowledge exchange within the bioeconomy sector. The first webinar, jointly organized with SUSTRACK, will focus on supporting local players in the transition to a circular bioeconomy, highlighting the collaborative approach to overcome barriers. The second webinar, organized in partnership with Tech4Biowaste, will delve into the BCC Webtool, showcasing its ability to identify promising biocircular technological options for improving biowaste management and facilitating replication of the project’s findings. The third and final webinar will showcase the journey of the three pilot territories, providing a glimpse into their experiences, stakeholder engagement, and the scientific contributions of BCC partners that supported local discussions.

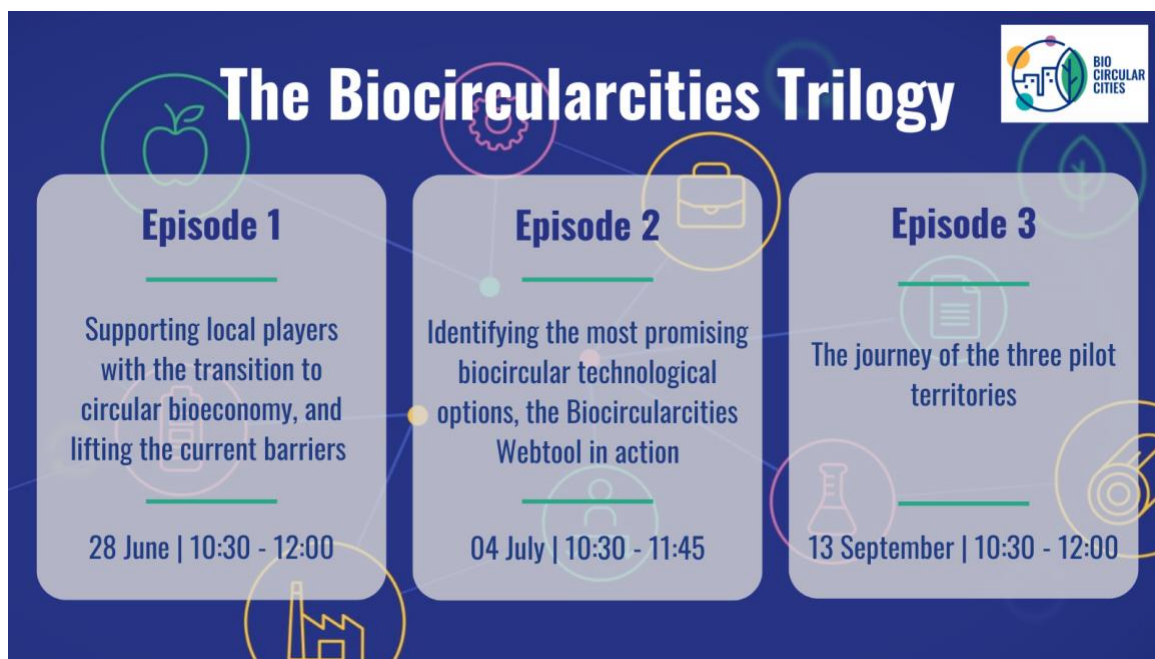


Figure 2: The three Biocircularities Webinars

These joint webinars hold significant value as they provide a platform for sharing best practices, lessons learned, and innovative solutions. Collaborating with sister projects allows for a broader perspective and a more comprehensive understanding of the challenges and opportunities in transitioning towards a circular bioeconomy. By bringing together the expertise and experiences of multiple projects, these webinars facilitate cross-pollination of ideas, foster collaboration, and accelerate progress in the field. The impact of these webinars extends beyond the immediate participants. They serve as a means of disseminating the project’s findings, key learnings, and successful approaches to a wider audience, including stakeholders, policymakers, and industry professionals. By sharing insights and showcasing the BCC results, these webinars enable replication and adoption of the project’s

outcomes in other territories. The Biocircularcities Trilogy webinars contribute to the advancement of sustainable practices, promote circular economy principles, and inspire further innovation in the bioeconomy sector.

4 Further Steps and Conclusions

The synergies between BCC and other EU-funded projects have demonstrated the benefits of collaboration in the field of circular and bio-based economy. Moving forward, it is essential to continue exploring opportunities for collaboration, knowledge sharing, and mutual support. The EU-funded biowaste projects and bioeconomy clusters could jointly (a) assess how they can strengthen each other, (b) organize joint dissemination and communication activities, (c) explore research gaps, and (d) draft new joint proposals on follow-on project. One possible next step is to organize joint events or workshops/webinars, bringing together the partners of different projects and clusters to exchange experiences and discuss common challenges. These events could also serve as a platform to showcase the results of the different projects and increase their visibility among stakeholders.

Another potential avenue for collaboration is to explore ways to integrate the different tools and databases developed by the projects, creating a more comprehensive and user-friendly platform for stakeholders. For instance, one potential approach to integrating the tools and databases is to seek funding through new Horizon projects. For instance, combining the expertise, knowledge, and resources of BCC, BIOBOOST, and LIFE BIOBEST, the integrated platform would benefit from the collective wisdom and experience of multiple projects. By applying for collaborative research and innovation initiatives, the projects can join forces to merge their respective web tools and decision support systems into a unified and enhanced platform.

Furthermore, it could be valuable to strengthen the collaboration between the communities of practice developed by the different projects, such as the one established by [BioGov.net](https://www.biogov.net). These communities provide a platform for experts and stakeholders to exchange knowledge and best practices, and they could be instrumental in disseminating the results of the different projects to a broader audience. By pooling resources and sharing experiences, the communities of practice could enhance the impact of the different projects and support the development of a more sustainable and circular bioeconomy.

Finally, it is essential to ensure the sustainability of the collaborations beyond the lifetime of the individual projects. One way to achieve this goal is to develop long-term partnerships between the partners of the different projects, building on the existing synergies and creating new ones. This can be facilitated by actively engaging in platforms such as the European Circular Economy Stakeholder Platform or EUBioNet, which provide collaboration and knowledge-sharing opportunities among EU projects in the circular bioeconomy field. Another action to promote project results beyond its lifetime is the development of customized factsheets on the project's results, which BCC is planning to complete before the end of the project. These factsheets will be carefully crafted to address the specific needs and interests of different target audiences, including ongoing and starting EU projects and initiatives. This knowledge-sharing mechanism promotes a collaborative environment where projects can learn

from one another, build upon shared experiences, and collectively contribute to the advancement of the circular bioeconomy agenda.

The synergies with other projects and initiatives have brought significant benefits to the BCC project, but they also posed several challenges. One of the main challenges was the different timing of tasks and deliverables among sister projects, which sometimes hindered the coordination and alignment of joint activities. Additionally, the lack of resources and time constraints limited the opportunities for more extensive collaborations and workshops with sister projects. Also, for joint scientific papers with sister projects, difficulties in aligning journal deadlines with the project schedule were identified as a challenge, as this sometimes resulted in missed opportunities to showcase project work. To mitigate these risks, we suggest the following strategies for future projects seeking to establish synergies:

- Plan in advance to identify potential partners and ensure that goals and timelines align by creating a joint calendar within sister project(s).
- Ensure adequate resources for conducting joint workshops and meetings, including time and funding.
- Set up a clear communication strategy to facilitate information exchange among sister projects.
- Continuously monitor and evaluate the progress of the collaboration to identify potential gaps and opportunities for improvement. This could be done by mapping relevant outcomes and activities along with timing to see what elements of the project can be of interest to others.

In conclusion, establishing synergies with other projects and initiatives is crucial to join forces to reach sustainable and circular bioeconomy goals. While challenges may arise, proper planning and communication can help mitigate risks and facilitate successful collaborations. BCC has demonstrated the potential of such collaborations, and we hope that our experiences and lessons learned can be useful for other projects seeking to achieve similar goals. The following table provides a summary overview of the achievements and collaborative initiatives from the synergies established between BCC and its sister projects.

Table 2: Summary of Synergies with Sister Projects

| Achievement(s)/Outcome(s) | Project(s) Involved |
|---|---|
| Increased visibility and audience reach through shared news and promotions | HOOP, WaysTUP, Tech4Biowaste, BIOMODEL4REGIONS, Phenolexa, BioGov.net |
| Knowledge exchange and sharing of experiences through bilateral meetings | HOOP, WaysTUP, Tech4Biowaste, BIOMODEL4REGIONS, Phenolexa, BioGov.net, DECISIVE |
| Identification of potential exploitation routes and ideas for results of BCC | BIOMODEL4REGIONS, Tech4Biowaste, BIOBOOST, DECISIVE, LIFE BIOBEST, WaysTUP |
| Enhanced dissemination and awareness of circular bioeconomy practices | HOOP, Phenolexa, BioGov.net |
| Policy recommendations for effective waste management in the bioeconomy | HOOP, WaysTUP |

| | |
|--|---|
| Brainstormed synergy ideas for a joint decision-support platform and scale up the outcomes of BCC for future European initiatives | Tech4Biowaste, LIFE BIOBEST, BIOBOOST, WaysTUP, |
| Dissemination of BCC results through webinars | BIOMODEL4RIGONS, SUSTRACK, Tech4Biowaste |

ANNEX

List of relevant initiatives supporting the development and uptake of bio-based products at the European level

| No. | Project Name/ General Data/Website/ Coordinator /Contact Details | Participating partners (existing institutional contacts in bold) | Main objective of project | Common topics (potential to synergies) with Biocircularities |
|-----|--|--|--|--|
| 1 | <p>ALLTHINGS.BIOPRO. Type of action: Coordination and Support Action Feedstock origin: Across VCs Start date: 01 September 2020 End date: 31 August 2023 http://www.allthings.bio/. Coordinator: Fachagentur Nachhaltende Rohstoffe EV (Germany). Contact: info@fnr.de (general email of the coordinator)</p> | <p>Fachagentur Nachhaltende Rohstoffe EV (Germany) B.T.G. Biomass Technology Group BV - BTG (the Netherlands) Wissenschaftsladen Bonn EV (Germany) - AB member Fondazione Icons (Italy) Nurogames GmbH (Germany) Prospex Institute (Belgium) Institute of Baltic Studies - IBS (Estonia) - CE Stichting Fashion For Good (the Netherlands) Stichting de Natuur – en Milieufederaties (the Netherlands) Sihtasutus Tartu Keskkonnahariduse Keskus – Tartu Environmental Education Centre (Estonia) - CE Vetenskap & Allmanhet, VA (Sweden) Inthum – Laboratorio Interculturale di Ricerca e di Promozione della Condizione (H)Umana (Italy)</p> | <p>The Allthings.bioPRO project aims to increase awareness and participation in the bio-based industry among citizens through the use of gamification, serious gaming, a mobile app, and a communication campaign. The project aims to gather feedback and inputs from citizens on specific topics related to the bioeconomy, which will be valuable for the bio-based industry and the Knowledge Centre for Bioeconomy. The Allthings.bio Platform will be used to communicate with the public about the bio-based economy, and the project will involve regional partners, citizens, stakeholders, policy makers, and the Knowledge Centre for Bioeconomy to ensure the uptake of results.</p> | <p>Both projects focus on promoting the use of bio-based materials and technologies to achieve a more sustainable future. Both projects involve collaboration between various stakeholders, including citizens, industry partners, and policy makers, to achieve their objectives. Both projects aim to raise awareness and increase participation among citizens in the bioeconomy and related topics.</p> |
| 2 | <p>MODEL2BIO Type of action: Research & Innovation Action Feedstock origin: Agri-based Feedstock type: Agri-food industrial sidestreams Start date: 01 May 2020 End date: 30 April 2023 http://www.model2bio.eu Coordinator: Asociación Centro Tecnológico Ceit - CEIT (Spain) Contact: Tamara Fernández Arévalo tferandez@ceit.es +34 943 212 800 / Ext. 2393</p> | <p>Asociación Centro Tecnológico Ceit - CEIT (Spain) Asociación para la Investigación Desarrollo e Innovación del Sector Agroalimentario – CTIC-CITA (Spain) Universidad de Navarra - Tecnun (Spain) Stichting Wageningen Research - WFBR (Netherlands) Celabor SCRL (Belgium) Cluster Viooikonomias Kai Perivallontos Dytikis MakedoniaS – CluBE (Greece) Asociación Cluster Food+I (Spain) Flanders' Food (Belgium) Iznab Spolka z Ograniczona Odpowiedzialnoscia - IZNAB (Poland) European Science Communication Institute (ESCI) GGmbH (Germany) Anonymi Etaireia Diacheirisis Aporrmmatton Per Dytikis Makedonias - DIADYMA (Greece)</p> | <p>The main MODEL2BIO project objective is to develop and validate its Decision-Support System (MODEL2BIO-DSS) tool. This is designed to link the food and drink primary sector with the bioindustry and help improve agri-food industry waste management.</p> | <p>The availability of locally-sourced feedstocks and the treatment of mixed biowaste. Both projects focus on promoting the transition towards a more sustainable and circular bioeconomy by developing innovative solutions and technologies. Both projects involve the use of biowaste and other biomass resources as feedstocks for the production of bio-based products and materials. Both projects aim to engage stakeholders across different sectors, including industry, research, and policy, to create a more sustainable and circular economy.</p> |
| 3 | <p>RECOVER Type of action: Research & Innovation Action Feedstock origin: Other Start date: 01 June 2020 End date: 31 May 2024 Type of action: Research & Innovation Action Feedstock origin: Other Start date: 01 June 2020 End date: 31 May 2024 Coordinator: Universidad de Almería (Spain) Contact: info@recover-bbi.eu</p> | <p>Universidad de Almería (Spain) Universita di Pisa (Italy) Asociación Agraria de Jóvenes Agricultores (Spain) Brunel University London (UK) Universidad Miguel Hernandez de Elche (Spain) Fachhochschule Albstadt-Sigmaringen (Germany) Naturplás Plásticos Agrícolas SL (Spain) ASA Spezialenzyme GmbH (Germany) Nutrinsect Srl (Italy) Iris Technology Solutions SL (Spain) OWS Research Foundation PS Idelux Environnement (Belgium) Femto Engineering Srl (Italy) Ingredient Odyssey LDA (Portugal) Carton Bros (Ireland) Enco Srl (Italy) - CE Sociedad Anonima Agricultores de Lavega de Valencia SAV (Spain)</p> | <p>The RECOVER project aims to demonstrate and upscale novel bio-based approaches to dealing with agri-food waste plastics. This includes quantifying and characterizing the plastics, selecting microbial communities and other organisms with high biodegradation capacities, and upscaling successful candidates. The project also aims to develop a process for extracting chitosan as an additive for packaging and mulching films, and to assess potential risks and environmental impacts.</p> | <p>RECOVER project will make a valuable contribution by offering solutions to the major problems posed by AWP. Both projects focus on addressing the challenge of waste management in the agri-food sector by promoting the use of bio-based solutions and circular economy principles. Both projects involve the development and implementation of innovative technologies and processes for the conversion of waste into value-added products and materials. Both projects aim to engage stakeholders across different sectors, including industry, research, and policy, to promote a more sustainable and circular bioeconomy.</p> |

| No. | Project Name/ General Data/Website/ Coordinator/Contact Details | Participating partners (existing institutional contacts in bold) | Main objective of project | Common topics (potential to synergies) with Biocircularities |
|-----|---|--|--|---|
| 4 | <p>CIRCULAR BIOCARBON Type of action: Innovation Action – Flagship Feedstock origin: Biowaste and CO2 Feedstock type: Organic fraction of municipal solid waste Start date: 01 June 2021 End date: 31 May 2026 https://circularbiocarbon.eu/ Urbaser SA (Spain) info@circularbiocarbon.eu</p> | <p>Urbaser SA (Spain) Socamex SA (Spain) CAP Holding (Italy) Graphenea Semiconductor SL (Spain) Novamont SPA (Italy) Agro Innovation International (France) Iclei European Secretariat GmbH (Iclei Europasekretariat GmbH) (Germany) Fundacio Universitaria Balmes (Spain) Universidad de Valladolid (Spain) Universita Politecnica delle Marche (Italy) CemeCon (Denmark)</p> | <p>The CIRCULAR BIOCARBON project aims to demonstrate the feasibility and viability of creating new business opportunities by treating municipal city waste and recovering and valorizing the organic fraction. The project seeks to contribute to a more sustainable and circular bioeconomy by converting waste into value-added products, such as biochar, biogas, and fertilizers.</p> | <p>Establishing new bio-based value chains from the organic fraction of municipal solid waste. Both projects focus on the conversion of waste into value-added products and materials through the use of bio-based solutions and circular economy principles. Both projects involve the development and implementation of innovative technologies and processes to achieve their objectives, such as biogas production</p> |
| 5 | <p>PHENOLEXA Type of action: Research & Innovation Action Start date: 01 June 2021 End date: 31 May 2024 http://phenolexa.eu/ Civitta Eesti AS (Estonia) Janely Pae janely.pae@civitta.com</p> | <p>Civitta Eesti AS (Estonia) Fundacio Eurecat (Spain) Novatica Technologies Ltd (UK) Consiglio Nazionale Delle Ricerche (Italy) Fundacion Cartif (Spain) Celabor Scrl (Belgium) Uniwersytet Mikolaja Kopernika w Toruniu (Poland) Loughborough University (UK) Bionigree SP. Z O.O. (Poland) EPC – Projektgesellschaft für Klima Nachhaltigkeit Kommunikation Mbh Gemeinnutzig (Germany) Chambre Regionale d'Agriculture Provence Alpes Côte Azur (France) Creaciones Aromaticas Industriales SA (Spain)</p> | <p>The overarching objective of the PHENOLEXA project is to develop a benign, efficient and environmentally friendly biorefinery process to extract high-value polyphenolic bioactive compounds for high-value applications.</p> | <p>A wide range of new cross-sectoral interconnection between feedstock suppliers, technology developers, end-users and final consumers. Phenolexa aims to develop a biorefinery platform to convert agro-cultural residues into high-value phenolic compounds. The potential synergies with the BioCircularCities project lie in their shared goals of valorizing agro-cultural waste streams and developing sustainable and circular value chains. Both projects could potentially benefit from each other's network, research and expertise in the biobased agro-cultural industry sector.</p> |
| 6 | <p>TECH4BIOWASTE Type of action: Coordination and Support Action Feedstock origin: Biowaste and CO2 Start date: 01 April 2021 End date: 31 March 2023 https://tech4biowaste.eu/ BTG Biomass Technology Group (Netherlands) John Vos, vos@btgworld.com, +31621534939</p> | <p>BTG Biomass Technology Group (Netherlands) - AB member Bio Base Europe Pilot Plant VZW (Belgium) Nova-Institut für Politische und Ökologische Innovation GMBH (Germany)</p> | <p>The overall objective of the Tech4Biowaste is to create a comprehensive database of bio-waste utilisation technologies that stakeholders - engineers, business developers, managers and other decision makers - can access for support in identifying where best to valorise their biowaste.</p> | <p>Common interest is expressed, contact with BTG (AB member) established. Utilized the database with technologies, and add technologies in Biocircularities project</p> |
| 7 | <p>WASTE2FUNC Type of action: Innovation Action - Demonstration Feedstock origin: Agri-based Feedstock type: Crop residues Agri-food industrial sidestreams Start date: 01 June 2021 End date: 30 November 2025 https://www.waste2func.eu/en/ Bio Base Europe Pilot Plant VZW (Belgium) info@waste2func.be</p> | <p>Bio Base Europe Pilot Plant VZW (Belgium) Universiteit Gent (Belgium) Triple W LTD (Israel) City University of Hong Kong City (Hong Kong) Ecover Coordination Center NV (Belgium) Croda Europe Ltd (UK) Evonik Operations GmbH (Germany) Organic Waste Systems NV (Belgium) Arche Belgium 1 42 NNFCC Ltd (UK) Innovatiesteunpunt voor Landbouw Enplatteland (Belgium) Biogas Solutions (Belgium)</p> | <p>The WASTE2FUNC project aims to demonstrate the economic and environmental viability of valorizing intermittent food waste streams to build reliable value chains and increase their value. The project focuses on reducing CO2 emissions within the new value chains by at least 20%, increasing the value of food waste biomass by two to ten times over conversion to biogas, pioneering new consumer prototype products, creating new employment opportunities in the biobased sector in rural and urban areas, and assisting in social development.</p> | <p>Both projects aim to reduce waste generation and promote sustainable management of waste streams, with a particular focus on biowaste. Both projects explore the potential of creating new value chains and opportunities from biowaste, with a view to increasing economic, environmental and social benefits. Both projects also seek to engage stakeholders and raise public awareness about the potential of the circular bioeconomy and the importance of reducing waste and promoting sustainable practices.</p> |

| No. | Project Name/ General Data/Website/ Coordinator/Contact Details | Participating partners (existing institutional contacts in bold) | Main objective of project | Common topics (potential to synergies) with Biocircularities |
|-----|--|--|--|---|
| 8 | <p>BIObec Type of action: Coordination&Support Action - Bio-based Industries Start date: 01 September 2021 End date: 29 February 2024 https://biobec.eu Alma Mater Studiorum - Universita di Bologna info@biobec.eu</p> | <p>Alma Mater Studiorum - Universita di Bologna - CE Universität Hohenheim (Germany) Ita-Suomen Yliopisto (Finland) Irish Bioeconomy Foundation (Ireland) Munster Technological University (Ireland) Fundacion Corporacion Tecnologica de Andalucia (Spain) Consiglio Nazionale delle Ricerche (Italy) FBCD AS (Denmark) Institut National des Sciences et Industries du Vivant et de L'environnement – Agroparistech (France) Universidad Autonoma de Barcelona (Spain) Fundacja Edukacji i Dialogu Społecznego pro Civis (Poland) Sustainable Innovations Europe SL (Spain) Stitching IHE Delft Institute for Water Education (the Netherlands) Wageningen University (the Netherlands)</p> | <p>The BIObec project aims to develop a framework for multi-level Bio-Based Education Centers (BBEC) that can meet the present and future needs of the industry and surrounding ecosystem. The project will design six BBEC pilots across Europe, addressing different topics related to value chains and institutional contexts, and will provide economic and financial assessments, governance plans, and lifelong learning programs. The project involves a network of 19 partners from academia and industry, along with local stakeholders, to promote the implementation and replication of BBECs to boost the contribution of the education sector to the bioeconomy.</p> | <p>Common interest in promoting the bioeconomy and sustainable development. Both projects involve a wide network of partners and the availability of regional data on the bioeconomic needs of different areas, which could be used to inform the development of education and training programs related to circular bioeconomy. Additionally, the BBEC pilots developed in the BIObec project could potentially serve as hubs for circular bioeconomic activities in their respective regions, complementing the work of the Biocircularities project.</p> |
| 9 | <p>TERMINUS Type of action: Research and Innovation Action - Bio-based Industries Start date: 01 January 2019 End date: 31 July 2023 https://www.terminus-h2020.eu/ Clermont Auvergne INP (France) contact@terminus-h2020.eu</p> | <p>Centre National de la Recherche Scientifique CNRS (France) Centre Technique Industriel de la Plasturgie et des Composites (France) Alma Mater Studiorum – Universita di Bologna (Italy) Fachhochschule Nordwestschweiz (Switzerland) Organic Waste Systems NV (Belgium) Plastics Recyclers Europe (Belgium) Covestro Deutschland AG (Germany) STTP Emballage SAS (France) Tetra Pak Packaging Solutions AB (Sweden) Valstybinis Moksliniu Tyrimu Institutas Fiziniu IR Technologijos Mokslu Centras (Lithuania) Biopox SRL (Italy) Nomer Research AS (Norway) Benkei (France) Recycle Consulting (France)</p> | <p>TERMINUS addresses the challenge of unlocking recycling and reuse of flexible multi-layer and multi-compounds packaging materials used for food, beverages, cosmetics, pet food, fertilisers, any perishable goods in general. It will develop a range of smart enzyme-containing polymers with triggered intrinsic self-biodegradation properties, acting as adhesives or tie layers in the design and manufacturing of multi-layer plastics for food and non-food applications. The technology will be applied to biodegradable PUR-based adhesives for adhesive lamination and extrusion coating lamination, and polymers and tie layers (PBS, PLA, PPC or PCL) in blown extrusion. Advancing the circular economy and reaching relevant targets set by the European Commission depend on increased innovation in the industry. TERMINUS will be a breakthrough solution for accelerating this transition.</p> | <p>TERMINUS project will make a valuable contribution by offering solutions to the major problems posed by AWWPs. Both projects aim to develop sustainable solutions for waste reduction and resource optimization, and the innovative technologies and strategies developed in TERMINUS could be applied in the context of Biocircularities to enhance the sustainability of urban ecosystems.</p> |
| 10 | <p>AgRefine Type of action: Marie Skłodowska-Curie Actions - Fostering new skills by means of excellent initial training of researchers Start date: 01 October 2019 End date: 30 September 2023 https://agrefine.eu/ University College Dublin, National University of Ireland agrefine@ucd.ie</p> | <p>University College Dublin, National University of Ireland Danmarks Tekniske Universitet (Denmark) Technische Universität Wien (Austria) Universität Gent (Belgium) Wageningen University (the Netherlands) Ethniko Kentro Erevnas Kai Technologikis Anaptixis (Greece) TBW Research Gesmbh (Austria) Bantry Marine Research Station Limited (Ireland)</p> | <p>The AgRefine European Training Network aims to position Europe as a global leader in developing an agri-bioeconomy industry based on advanced biorefinery technologies. The network will consist of 15 interdisciplinary and inter-sectoral PhD projects that will provide training in chemical and process engineering, biological science, life cycle assessment, economics, and other cross-cutting multi-disciplinary subjects. The ESRs will receive training on adopted RRI principles, project management, communication, presentation, and media skills. The network will provide ESRs with access to partners with key expertise in the bioeconomy, gaining a range of relevant transferable skills and expertise in environmental, economic, and social aspects of AgRefine.</p> | <p>Both projects aim to promote the development of a sustainable bioeconomy industry, with AgRefine focusing on advanced biorefinery technologies and Biocircularities addressing circularity in urban areas. Both projects have a strong interdisciplinary and inter-sectoral focus, bringing together partners from academia, industry, and local communities to achieve their objectives. Both projects are committed to creating sustainable value chains and maximizing the socio-economic benefits of our respective initiatives.</p> |

| No. | Project Name/ General Data/Website/ Coordinator/Contact Details | Participating partners (existing institutional contacts in bold) | Main objective of project | Common topics (potential to synergies) with Biocircularcities |
|-----|--|--|--|---|
| 11 | <p>COOPID Type of action: Coordination and support action Start date: 01 January 2021 End date: 30 June 2023 https://coopid.eu Cooperativas Agro-Alimentarias de Espana u de COOP Sociedad Cooperativa Susana Rivera, rivera@agro-alimentarias.coop</p> | <p>Eurizon SL (Spain) Greenflex (France) Alma Mater Studiorum – Univerita di Bologna (Italy) Gaia Epicherein Anonymi Etaireia Psifiakon Ypiresion (Greece) Agraren Universitet – Plovdiv (Bulgaria) Instytut Ekonomiki Rolnictwa I Gospodarki Zywnosciowej-Panstwowy Instytut Badawaczy (Poland) Landeskammer für Land und Fortwirtschaft in Steiermark (Austria) Munster Technological University (Ireland) FBCD AS (Denmark) Proagriä Oulu RY (Finland)</p> | <p>The COOPID project aims to promote inclusive and sustainable bio-based business models in the European primary production sector by creating a network of COOPID Bioeconomy Clusters from 10 European countries, involving primary producers, industry, public sector, and research & academia. Through a four-level knowledge transfer approach, the project will select "Success Story Showcases" to be visited by COOPID ambassadors, who will then organize workshops and engage with other target audiences. The project also emphasizes mobilizing female and young producers and will provide recommendations for primary producers, policy-makers, and academia & research to promote a wider bioeconomy deployment in primary production.</p> | <p>The COOPID project's focus on mobilizing primary producers and promoting sustainable bio-based business models in the primary production sector can align with the Biocircularcities project's goal of promoting a circular bioeconomy in urban areas by emphasizing the importance of sustainable sourcing of bio-based materials. Additionally, COOPID's approach to engaging a range of stakeholders, including the public sector and academia, can facilitate knowledge transfer and collaboration between actors involved in the bioeconomy, which could be relevant to the Biocircularcities project's focus on promoting cross-sectoral and multi-stakeholder partnerships.</p> |
| 12 | <p>BRANCHES Type of action: Coordination and support action Start date: 01 January 2021 End date: 31 December 2023 https://www.branchesproject.eu Luonnonvarakeskus (Finland) Johanna Routa johanna.routa@luke.fi</p> | <p>Consiglio Nazionale delle Ricerche (Italy) Teknologian Tutkimuskeskus VTT OY (Finland) Uniwersytet Warmisko Mazurski W Olsztynie (Poland) DBFZ Deutsches Biomassforschungszentrum Gemeinnützige GMBH (Germany) Fundacion Circe Centro de Investigacion de Recursos y Consumos Energeticos (Spain) Itabia-Italian Biomass Association (Italy) Maa- ja Metsätaloustuottajain Keskusliitto MTK RY (Finland) Asociacion Espanola de la Valorizacion Energetica de la Biomasa (Spain) Helmholtz-Zentrum für Umweltforschung GBMH – UFZ (Germany) Warmisko-Mazurski Osrodek Doradztwa Rolniczego z Siedziba w Olsztynie (Poland) BCM Bioeconomy Cluster Management GMBH (Germany)</p> | <p>The BRANCHES project aims to improve the connection between the practice and science of the bio-based economy in European agriculture and forestry practitioners, particularly in rural areas, by sharing best practices and research results from EU and national projects. The project will integrate knowledge on forest and agricultural biomass supply chains with available and innovative technologies for bioenergy conversion systems and provide policy recommendations and competitive biomass supply chains in easily understandable formats through thematic networks. The project consortium has 12 partners, and over 30 organizations have expressed their support for the project (including companies, associations, Ministries, Councils and Federations) have express their support to the project (through support letters).</p> | <p>The BRANCHES and Biocircularcities projects share a common focus on promoting sustainable bioeconomy solutions, with a particular emphasis on agricultural and forestry value chains. Both projects aim to bridge the gap between research and practice by sharing best practices and innovative technologies, and fostering collaboration among stakeholders. There is potential for synergy between the two projects in terms of sharing knowledge and expertise on sustainable bio-based initiatives in rural and urban areas.</p> |
| 13 | <p>BioMonitor Type of Action: RIA Start Date: 1 June 2018 End Date: 30 November 2022 https://biomonitor.eu/ WAGENINGEN UNIVERSITY (Netherland) Justus Wesseler coordinator@biomonitor.eu</p> | <p>UNIVERSITA CATTOLICA DEL SACRO CUORE - ITALY IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE - UNITED KINGDOM LATVIJAS LAUKSAIMNIECIBAS UNIVERSITATE - LATVIA UNIVERZITA V NITRE - SLOVAKIA TECHNISCHE UNIVERSITAET MUENCHEN - GERMANY CENTRO DE INVESTIGACION Y TECNOLOGIA AGROALIMENTARIA DE ARAGON - SPAIN CENTRAAL BUREAU VOOR DE STATISTIEK - NETHERLANDS JRC -JOINT RESEARCH CENTRE- EUROPEAN COMMISSION - BELGIUM STICHTING KONINKLIJK NEDERLANDS NORMALISATIE INSTITUUT - NETHERLANDS JOHANN HEINRICH VON THUENEN-INSTITUT, BUNDESFORSCHUNGSINSTITUT FUER LAENDLICHE RAEUME, WALD UND FISCHEREI - GERMANY STICHTING WAGENINGEN RESEARCH - NETHERLANDS DELOITTE CONSEIL - FRANCE EUROPEAN FOREST INSTITUTE - FINLAND FONDAZIONE ICONS - ITALY NOVA-INSTITUT FÜR POLITISCHE UND ÖKOLOGISCHE INNOVATION GMBH - GERMANY SWETREE TECHNOLOGIES AB - SWEDEN NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO- NETHERLANDS</p> | <p>BioMonitor is a project with the objective of establishing a sustainable data and modeling framework for the bioeconomy, to monitor and measure its various impacts in relation to the EU and its Member States. The project uses new and improved datasets to close data gaps, enhances existing modeling tools, and creates a stakeholder engagement platform and training modules to validate and disseminate the data. The project aims to develop a novel modeling framework to guide policymakers in defining long-term strategies.</p> | <p>There are potential synergies between BioMonitor and BioCircularCities as both projects aim to develop frameworks to monitor and measure the bioeconomy and its impacts. The BioMonitor project aims to establish a sustainable data and modelling framework for the bioeconomy, while BioCircularCities aims to develop and promote sustainable bioeconomy solutions for urban areas. Both projects could potentially benefit from sharing their frameworks and collaborating on data gathering and analysis to enhance the understanding of the bioeconomy's impact on urban areas.</p> |

| No. | Project Name/ General Data/Website/ Coordinator/Contact Details | Participating partners (existing institutional contacts in bold) | Main objective of project | Common topics (potential to synergies) with Biocircular cities |
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| 14 | <p>Foodrus Type of Action: IA Start Date: 1 November 2020 End Date: 30 April 2024 https://www.foodrus.eu/ UNIVERSIDAD DE LA IGLESIA DE DEUSTO ENTIDAD RELIGIOSA (Spain) Daniel Lissoni d.lissoni@greenovate-europe.eu</p> | <p>GEONARDO ENVIRONMENTAL TECHNOLOGIES LTD - HUNGARY ENGINEERING - INGEGNERIA INFORMATICA SPA - ITALY ASSOCIATION DES VILLES ET REGIONS POUR LA GESTION DURABLE DES RESSOURCES - BELGIUM ASOCIACION DE LA INDUSTRIA NAVARRA - SPAIN AARHUS UNIVERSITET - DENMARK FEDERATION EUROPEENNE DE FINANCES ET BANQUES ETHIQUES ET ALTERNATIVES - BELGIUM BASQUE CULINARY CENTER FUNDAZIOA - SPAIN GREENOVATE ! EUROPE - BELGIUM FUNDACION HAZI FUNDAZIOA - SPAIN FLORETTE IBERICA SL - SPAIN VEGA MAYOR SL - SPAIN EROSKI SCOOP - SPAIN SOCIEDAD ESTATAL CORREOS Y TELEGRAFOS SA SME - SPAIN AYUNTAMIENTO DE ZAMUDIO - SPAIN MANCOMUNIDAD DE SERVICIOS DEL TXORIERRI - SPAIN BEHARGINTZA TXORIERRI SL - SPAIN ELIKA NEKAZARITZAKO ELIKAGAIEN SEGURTASUNARAKO EUSKAL FUNDAZIOA - SPAIN CONSORCIO PARA LAS ESTRATEGIAS DE DESARROLLO DE LA RIBERA DE NAVARRA-SPAIN JESPER TORVEKØKKEN APS DENMARK FRISKE FISK A/S - DENMARK</p> | <p>FOODRUS project will develop an innovative, collaborative and circular food system to reduce food waste and losses in the agri-food chain. Its strategy is aimed at preventing food waste in a circular economy. Specifically, it will test 23 circular solutions through diverse forms of collaborative innovation, including: technological (blockchain solutions to manage food losses and waste), social (educational materials and citizen science activities to promote sustainable consumption habits), organisational (last mile networks to foster local consumption and donation), and fiscal (new 'Pay As You Throw' schemes). The focus is on vegetables in Spain, meat and fish in Denmark and bread in Slovakia.</p> | <p>FOODRUS and Biocircularcities have potential synergies as they both focus on promoting circular economy solutions to reduce waste and enhance sustainability. Specifically, both projects address municipal organic waste in Spain, with FOODRUS aiming to reduce food waste in the agri-food chain and Biocircularcities focusing on converting organic waste into high value-added products. Collaboration between these projects could lead to the development and implementation of more effective circular economy strategies in Spain.</p> |
| 15 | <p>HOOP Type of Action: IA Start Date: 1 October 2020 End Date: 30 September 2024 https://hooproject.eu/ ASOCIACION EMPRESARIAL CENTRO TECNOLÓGICO DE LA ENERGIA Y DEL MEDIO AMBIENTE DE LA REGION DE MURCIA (Spain) Gemma Castejón, CETENMA gemma.castejon@cetenma.es; Martín Soriano, CETENMA martin.soriano@cetenma.es</p> | <p>SOCIEDAD ANONIMA AGRICULTORES DE LA VEGA DE VALENCIA - Spain DRAXIS ENVIRONMENTAL SA - Greece NAFIGATE CORPORATION, A.S. - Czechia FUNDACION CENTRO GALLEGO DE INVESTIGACIONES DEL AGUA- Spain FUNDACION CENTRO ANDALUZ DE INVESTIGACIONES DEL AGUA -Spain RESEARCH4LIFE B.V. - Netherlands ASSOCIATION DES VILLES ET REGIONS POUR LA GESTION DURABLE DES RESSOURCES - Belgium GREENOVATE ! EUROPE - Belgium REVOLVE WATER - Belgium SCIENCE FOR CHANGE, SL - Spain SUSTENTEPOPEIA UNIPESOAAL LDA- Portugal COLLABORATING CENTRE ON SUSTAINABLE CONSUMPTION AND PRODUCTION GGMBH - Germany RDA - CLIMATE SOLUTIONS UNIPESOAAL LDA - Portugal BAX & COMPANY BV - Netherlands BAX INNOVATION CONSULTING SL - Spain BEDIN SARA - Italy SAVONIA-AMMATTIKORKEAKOULU OY Finland BIR PRIVAT AS - Norway BIR AS - Norway BIR BEDRIFT AS - Norway GEMEENTE ALMERE - Netherlands ANCI ASSOCIAZIONE REGIONALE COMUNI ITALIANI LAZIO - Italy</p> | <p>The HOOP project supports 8 lighthouse cities and regions in developing large-scale urban circular bioeconomy initiatives that will focus on making bio-based products from urban biowaste and wastewater. The HOOP Urban Circular Bioeconomy Hub will create an online platform to foster knowledge exchange and replication in cities and regions across Europe. HOOP will provide Project Development Assistance (PDA) to Albano Laziale (Italy), Almere (The Netherlands), Bergen (Norway), Kuopio (Finland), Münster (Germany), Murcia (Spain), Greater Porto (Portugal), and Western Macedonia (Greece).</p> | <p>The HOOP project's identification of 15 biowaste conversion solutions could provide a strong baseline for assessing solutions to add to the Biocircularcities webtool matrix. Both projects aim to foster knowledge exchange and replication across cities and regions in Europe, with HOOP creating an online platform for this purpose and Biocircularcities developing a webtool matrix to support decision-making in the circular bioeconomy.</p> |

| No. | Project Name/ General Data/Website/ Coordinator/Contact Details | Participating partners (existing institutional contacts in bold) | Main objective of project | Common topics (potential to synergies) with Biocircularities |
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| 16 | <p>Scalibur Type of Action: IA Start Date: 1 November 2018 End Date: 31 October 2022 http://www.scalibur.eu/ INSTITUTO TECNOLÓGICO DEL EMBALAJE, TRANSPORTE Y LOGÍSTICA (Spain) César Aliaga cesar.aliaga@itene.com</p> | <p>ASA SPEZIALENZYME GMBH - Germany FUNDACION CENER - Spain CLUSTER VIOOIKONOMIAS KAI PERIVALLONTOS DYTIKIS MAKEDONIAS - Greece PANEPISTIMIO DYTIKIS MAKEDONIAS - Greece COLLABORATING CENTRE ON SUSTAINABLE CONSUMPTION AND PRODUCTION GGMBH - Germany EXERGY LTD - United Kingdom FOMENTO DE CONSTRUCCIONES Y CONTRATAS SA - Spain GREENOVATE ! EUROPE - Belgium STICHTING INNOVAT.ION- Netherlands GEONARDO ENVIRONMENTAL TECHNOLOGIESLTD - Hungary VAN DER MEER & VAN TILBURG WEST BV - Netherlands KOUR ENERGY SRL - Italy ANCI ASSOCIAZIONE REGIONALE COMUNI ITALIANI LAZIO - Italy LUNDS KOMMUN - Sweden AYUNTAMIENTO DE MADRID - Spain NOVAMONT SPA - Italy NUTRITION SCIENCES - Belgium FCC AQUALIA SA - Spain SEVEROMORAVSKE VODOVODY A KANALIZACE OSTRAVA AS - Czechia UNIVERSITA DEGLI STUDI DI MODENA E REGGIO EMILIA - Italy IRIS TECHNOLOGY SOLUTIONS, SOCIEDAD LIMITADA - Spain STICHTING WETSUS, EUROPEAN CENTRE OF EXCELLENCE FOR SUSTAINABLE WATER TECHNOLOGY -</p> | <p>SCALIBUR creates a holistic consortium to cut urban biowaste and replace it with a new production chain of biomaterials, forming a partnership of end users to recover and transform biowaste from three municipalities, namely Madrid (ES), Albano (IT) and Kozani (EL), into value added products. During SCALIBUR a complete study of the quality, logistics and management schemes for municipal solid waste (MSW) and urban sewage sludge (USS) will be performed, to integrate innovative systems and technologies and obtain high-value biobased products</p> | <p>There is potential synergy between the SCALIBUR and Biocircularities projects in terms of their shared focus on creating a circular bioeconomy from urban biowaste. Both projects aim to recover and transform biowaste into value-added products and incorporate innovative systems and technologies. Additionally, the research and development of high-value biobased products from biowaste by SCALIBUR can be a useful reference for the Biocircularities project to expand its matrix of solutions for municipal organic waste.</p> |
| 17 | <p>Value waste Type of Action: IA Start Date: 1 November 2018 End Date: 31 October 2022 http://valuewaste.eu/ ASOCIACION EMPRESARIAL CENTRO TECNOLÓGICO DE LA ENERGIA Y DEL MEDIO AMBIENTE DE LA REGION DE MURCIA (Spain) gemma.casteljon@cetenma.es</p> | <p>EURIZON SL - Spain SAVONIA-AMMATTIKORKEAKOULU OY - Finland CESPA SERVICIOS URBANOS DE MURCIA SA -Spain AYUNTAMIENTO DE MURCIA - Spain INSTITUTO TECNOLÓGICO DE ARAGON - Spain UNIBIO AS - Denmark FBCD AS - Denmark ASOCIACION ESPANOLA DE NORMALIZACION - Spain NUTRIENTS RECOVERY SYSTEMS - Belgium EKOBALANS FENIX AB - Sweden INGENIERIA Y DESARROLLOS RENOVABLES SOCIEDAD LIMITADA - Spain FUNDACION GAIKER - Spain ENTOMO CONSULTING SL - Spain SEAH INTERNATIONAL - France SOCIETE POUR LA PROMOTION DES PRODUITS DE LA PECHE - France KALUNDBORG KOMMUNE - Denmark KALUNDBORG SYMBIOSE - Denmark EUROPEAN BIOMASS INDUSTRY ASSOCIATION - Belgium CREACIONES AROMATICAS INDUSTRIALES S.A. - Spain</p> | <p>VALUEWASTE proposes an integrated approach in urban biowaste upcycling for the production of high-value biobased products, developing the first complete solution to fully valorise biowaste that can be replicated across Europe. VALUEWASTE will implement three new value chains that will use urban biowaste as raw material for its valorisation into high-value end products in a cascading process, generating economic, social and environmental benefits: food & feed proteins and other ingredients, and biobased fertiliser. VALUEWASTE will be developed at two very different European locations, Murcia (ES) and Kalundborg (DK) with the purpose of finding a solution both technical and socially adapted to the different socio-economic contexts existing across Europe.</p> | <p>The potential synergies between VALUEWASTE and the Biocircularities project include their shared focus on the development of circular economy solutions for urban biowaste, as well as the promotion of sustainable and environmentally friendly practices. Both projects aim to create value from waste, with VALUEWASTE focusing on the production of high-value biobased products such as food and feed proteins, ingredients, and biobased fertilizers. Additionally, the development of replicable solutions and the engagement of stakeholders are important elements in both projects.</p> |

| No. | Project Name/ General Data/Website/ Coordinator/Contact Details | Participating partners (existing institutional contacts in bold) | Main objective of project | Common topics (potential to synergies) with Biocircularities |
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| 18 | <p>WaystUP Type of Action: IA Start Date: 1 September 2019 End Date: 31 August 2023 https://waystup.eu/ SOCIEDAD ANONIMA AGRICULTORES DE LAVEGA DE VALENCIA (Spain) Belén Miranda, innova@sav-lavega.com</p> | <p>BIOPOLIS SL - Spain AIMPLAS - ASOCIACION DE INVESTIGACION DE MATERIALES PLASTICOS Y CONEXAS - Spain ETHNICON METSOVION POLYTECHNION - Greece POLYTECHNEIO KRITIS - Greece UNIVERSIDAD DE ALICANTE - Spain BIO -BEAN LIMITED - United Kingdom NAFIGATE CORPORATION, A.S. - Czechia NOVAMONT SPA - Italy INDUSTRIAS MECANICAS ALCUDIA SL - Spain CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS-CIEMAT - Spain TBW RESEARCH GESMBH - Austria NUTRITION SCIENCES - Belgium ADM WILD VALENCIA, SA - Spain TERRA I XUFA SOCIEDAD LIMITADA - Spain DRAXIS ENVIRONMENTAL SA - Greece FUNDACION CIRCE CENTRO DE INVESTIGACION DE RECURSOS Y CONSUMOS ENERGETICOS - Spain INTERUNIVERSITAIR MICRO-ELECTRONICA CENTRUM - Belgium INSTITUTO VALENCIANO DE INVESTIGACIONES AGRARIAS - Spain BIOSENSE INSTITUTE - RESEARCH AND DEVELOPMENT INSTITUTE FOR INFORMATION TECHNOLOGIES IN BIOSYSTEMS - Serbia ETAM ANONYMH ETAIREIA SYMBOLEYTIKON KAI MELEHTHIKON YPIRESION - Greece AREA METROPOLITANA DE BARCELONA - Spain AYUNTAMIENTO DE VALENCIA - Spain HELLENIC SOCIETY FOR THE PROTECTION OF NATURE - Greece DIKTYO POLEON GIA TI VIOSIMI ANAPTYXI KAI KYKLIKI OIKONOMIA - Greece HAYAT KIMYA SANAYI ANONIM SIRKETI - Turkey PERSEO BIOTECHNOLOGY S.L. - Spain</p> | <p>The EU-funded WaysTUP! project aims to establish new value chains for urban bio-waste. The project will display a range of new products produced from urban bio-waste to bio-based processes starting from different feedstocks, including fish and meat waste, spent coffee grounds, household source-separated bio-waste, and used cooking oils. The project is expected to produce a behavioral change in citizens and local communities, improving and changing longstanding perceptions of urban bio-waste during its implementation.</p> | <p>There are several potential synergies between the WaysTUP and Biocircularities projects, such as a shared focus on establishing new value chains for urban bio-waste. Both projects also use the coffee chain as a feedstock, with Biocircularities focusing on coffee silver skin before production, and WaysTUP using waste after production. Additionally, both projects conduct life cycle costing and assessment to evaluate the environmental and economic impacts</p> |
| 19 | <p>JUST2CE Type of action: RiA Start date: 01 September 2021 End date: 31 August 2024 https://just2ce.eu/ UNIVERSIDAD AUTONOMA DE BARCELONA (Spain) informacio@uab.cat (general email of the coordinator)</p> | <p>UNIVERSIDAD AUTONOMA DE BARCELONA (Spain) Universidad de Vigo (Spain) The University of Sheffield (UK) Universita Degli Studi di Napoli Parthenope (Italy) Centro de Estudos Sociais (Portugal) University of Leeds (UK) University of Cape Town (South Africa) Kentro Erevnon Notioanatolikis Evropis Astiki Mi Kerdoskopiki Etaireia (Greece) Agencia de Residus de Catalunya (Spain) Mekelle University (Ethiopia) Kumasi Hive (Ghana) Scientific and Industrial Research and Development Centre (Zimbabwe) African Circular Economy Network (South Africa) Energy @Work Societa' Cooperativa A R.L. (Italy)</p> | <p>JUST2CE aims at understanding, in critical and thoughtful way, under which conditions a responsible, inclusive and social just transition to a circular economy is possible and desirable, what technical, political and social factors can enable or hamper such transformation and how these aspects can contribute to the development of transitional policy measures. The conviction underpinning the project is that the success of a transition towards a sustainable circular economy does not merely depend on the development of new technologies - artefacts or processes - but also in the reconfiguration of the governance of productive processes into more democratic and participatory mechanisms of designing and managing technology.</p> | <p>The JUST2CE project focuses on exploring the social, political, and technical factors that can enable or hinder a responsible, inclusive, and socially just transition to a circular economy. This aligns with Biocircularities' aim to foster a transition towards a more sustainable and circular economy by promoting stakeholder involvement and participation. Both projects emphasize the importance of considering social and political aspects alongside technological advancements in the transition to a circular economy.</p> |

| No. | Project Name/ General Data/Website/ Coordinator/Contact Details | Participating partners (existing institutional contacts in bold) | Main objective of project | Common topics (potential to synergies) with Biocircularities |
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| 20 | <p>WATER-MINING Type of action: IA - Next generation water-smart management systems: large scale demonstrations for a circular economy and society Start date: 1 September 2020 End date: 31 August 2024 https://watermining.eu/ TECHNISCHE UNIVERSITEIT DELFT (Netherlands) info@watermining.eu</p> | <p>UNIVERSITY OF ABERDEEN (UK) WATER EUROPE (Belgium) RESOLUTION RESEARCH NEDERLAND BV (Netherlands) UNIVERSITA DEGLI STUDI DI PALERMO (Italy) STICHTING WETSUS, EUROPEAN CENTRE OF EXCELLENCE FOR SUSTAINABLE WATER TECHNOLOGY (Netherlands) UNIVERSIDAD AUTONOMA DE BARCELONA (Spain) STICHTING JOINT IMPLEMENTATION NETWORK (Netherlands) ACSA OBRAS E INFRAESTRUCTURAS SAU (Spain) INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS (Greece) HASKONINGDHV NEDERLAND BV (Netherlands) KANZLER VERFAHRENSTECHNIK GMBH (Austria) LARNACA SEWERAGE AND DRAINAGE BOARD (Cyprus) STICHTING NATIONAAL CENTRUM VOOR WETENSCHAPS- EN TECHNOLOGIECOMMUNICATIE (Netherlands) ACCIONA AGUA SA (Spain) UNIVERSIDAD DE SANTIAGO DE COMPOSTELA (Spain) JERUSALEM INSTITUTE FOR ISRAELI STUDIES (Israel) AGUAS DO ALGARVE SA (Portugal) REVOLVE (Spain)</p> | <p>This project aims to provide for real-world implementations of Water Framework Directive (and other water related legislation), as well as the Circular Economy and EU Green Deal packages by showcasing and validating innovative next generation water resource solutions at pre-commercial demonstration scale. These solutions combine WATER management services with the recovery of value added renewable resources extracted/MINED from alternative water resources ("WATER-MINING"). The project will integrate selected innovative technologies that have reached proof of concept levels under previous EU projects. The value-added end-products (water, platform chemicals, energy, nutrients, minerals) are expected to provide regional resource supplies to fuel economic developments within a growing demand for resource security.</p> | <p>Both projects are focused on implementing circular economy principles and exploring innovative solutions for resource recovery and waste management. While Biocircularities project is focused on municipal organic waste, agricultural and forestry, WATER-MINING is focused on alternative water resources. However, both projects are exploring the recovery of value-added products from waste streams. WATER-MINING's focus on water management services and resource recovery could potentially complement Biocircularities project's efforts to promote sustainable urban agriculture through the use of recovered nutrients and organic fertilizers.</p> |
| 21 | <p>PATHWAYS Type of action: RIA Start date: 1 September 2021 End date: 31 August 2026 https://pathways-project.com/ SVERIGES LANTBRUKSUNIVERSITET (Sweden) Laurence Smith laurence.smith@slu.se Harry Blokhuys harry.blokhuys@slu.se</p> | <p>STICHTING WAGENINGEN RESEARCH (Netherlands) STICHTING AERES GROEP (Netherlands) AARHUS UNIVERSITET (Denmark) AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (Spain) FORSCHUNGSINSTITUT FUR BIOLOGISCHEN LANDBAU STIFTUNG (Switzerland) INSTYTUT UPRAWY NAWOZENIA I GLEBOZNAWSTWA, PANSTWOWY INSTYTUT BADAWCZY (Poland) UNIVERSITATEA DE STIINTE AGRICOLE SI MEDICINA VETERINARA CLUJ NAPOCA (Romania) ROYAL AGRICULTURAL UNIVERSITY (UK) UNIVERSITA DI PISA (Italy) FONDATION INSTITUT DE RECHERCHE POUR LE DEVELOPPEMENT DURABLE ET LES RELATIONS INTERNATIONALES (France) Association de Coordination Technique Agricole (France) PASTURE-FED LIVESTOCK ASSOCIATIONCIC (UK) LANDBRUG & FODEVARER F.M.B.A. (Denmark) ASOCIAZIONE ITALIANA ALIMENTI GRASSFED (Italy) REVOLVE MEDIA (Belgium) COOPERATIVA AGRICOLA TIBLES-SOMES-MELES (Romania) THE UNIVERSITY OF READING (UK) AGROVAST LIVSMEDEL AKTIEBOLAG (Sweden) NATURBETESKOTT I SVERIGE (Sweden) BIODYNAMISCHE FODERATION - DEMETERINTERNATIONAL EV (Germany) UNION EUROPEENNE DU COMMERCE DU BETAILET DE LA VIANDE (Belgium) FEDERACJA BRANZOWYCH ZWIĄZKOW PRODUCENTOW ROLNYCH (Poland) CORSEVILLA S COOP AND (Spain) DANONE RESEARCH SAS (France) ARLA FOODS AMBA (Denmark) VRIJE UNIVERSITEIT BRUSSEL (Belgium) UNIVERSITEIT GENT (Belgium)</p> | <p>The PATHWAYS project will deliver co-developed transition pathways that directly address societal demands for increased resilience in the provision of safe, nutritious, affordable livestock-based food, whilst reducing environmental impacts, and supporting the economic sustainability of the European livestock sector. Visions, scenarios and transition pathways will be co-developed through an ambitious participatory approach based on innovative practice hubs, living labs and interaction within a European multi-actor platform and a wider community of practice. The participatory development and application of a holistic sustainability assessment will deliver a scientifically robust analysis for the co-development of scenarios and transition pathways to inform key stakeholders throughout livestock-based food systems, driving a transition to greater sustainability. PATHWAYS will improve the role of livestock in supporting a circular bioeconomy and the place of animal products in future diets through an interactive online platform and policy toolkit to provide user-friendly instruments for a range of stakeholders.</p> | <p>Both PATHWAYS and Biocircularities projects use a participatory approach through living labs to co-develop sustainable solutions. While PATHWAYS focuses on livestock-based food systems, Biocircularities addresses the urban biowaste upcycling for high-value biobased products.</p> |

| No. | Project Name/ General Data/Website/ Coordinator/Contact Details | Participating partners (existing institutional contacts in bold) | Main objective of project | Common topics (potential to synergies) with Biocircularities |
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| 22 | <p>FRACTION Type of action: BBI-RIA Start date: 1 June 2021 End date: 31 May 2024 https://fraction-project.eu/ AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS (Spain) Dr. David Martin Alonso david.alonso@csic.es +34-915119652</p> | <p>STORA ENSO AB - Sweden KINGSPAN INSULATION -Belgium AEP POLYMERS SRL - Italy AVA BIOCHEM BSLAG - Switzerland FUNDACION GAIKER - Spain UNIVERSIDAD REY JUAN CARLOS - Spain TEKNOLOGIAN TUTKIMUSKESKUS VTT OY - Finland CLIC INNOVATION OY - Finland PROCESS DESIGN CENTER BV - Netherlands KEUKEN & DE KONING BV - Netherlands FUNDACION PARA EL DESARROLLO Y LA INNOVACION TECNOLOGICA - Spain IFAU APS - Denmark</p> | <p>The FRACTION project aims to develop a flexible lignocellulosic biorefinery concept that can adapt to a wider range of raw materials, market demand, and fluctuating economics while resolving separation and purification processes. The project will create new interconnections and value chains in the bio-based economy, validate new chemical building blocks, and progress downstream innovations to synthesize chemical building blocks and end products. The advancements in readiness levels of various technologies will be validated, with GLV organosolv progressing from TRL3 to TRL5, and downstream innovations progressing from TRL3 to TRL4.</p> | <p>The FRACTION project and the Biocircularities project share a common interest in the development of a bio-based economy. Both projects aim to establish new value chains and interconnections between feedstock providers and bio-industries to support the production of bio-based products. FRACTION specifically focuses on creating new feedstocks and value chains through the development of flexible lignocellulosic biorefinery concepts, while Biocircularities focuses on establishing circular bioeconomies in urban areas through the use of various waste streams.</p> |
| 23 | <p>BioGov.net Type of action: CSA Start date: 1 June 2022 End date: 31 May 2025 https://www.biogov.net/ CIVITTA EESTI AS (Estonia) Liina Vahner, liina.vahner@civitta.com, +3725024503</p> | <p>Q-PLAN INTERNATIONAL ADVISORS PC, Greece GLOBAZ, S.A., Portugal PEDAL CONSULTING SRO, Slovakia FVA SAS DI LOUIS FERRINI & C, Italy ZEMEDELSKY VYZKUM, SPOL SRO, Czechia STICHTING AVANS, Netherlands ALMA MATER STUDIUM - UNIVERSITA DI BOLOGNA, Italy B.T.G. BIOMASS TECHNOLOGY GROUP BV, Netherlands WISSENSCHAFTSLADEN BONN EV, Germany</p> | <p>bioeconomy education and co-creating guidelines for bioeconomy training and mentoring through a multistakeholder approach. The project methodology includes conducting regional assessments of bioeconomy education needs with a special focus on vocational training and lifelong learning, identifying good practices and case studies in bioeconomy education, mobilizing European Communities of Practice for better governance and skills development in the bioeconomy, promoting the role of arts and creativity in bioeconomy education, and delivering top-notch training and mentoring guidelines tailored to regional needs.</p> | <p>BioGov.net and Biocircularities share a common goal of fostering the transition to a sustainable and inclusive bioeconomy. BioGov.net's regional approach and multistakeholder approach can complement Biocircularities' efforts in promoting sustainable biowaste management solutions at the local level. In addition, BioGov.net's network of stakeholders can be utilized to disseminate the results of the Biocircularities project and facilitate their adoption by relevant actors in the bioeconomy.</p> |
| 24 | <p>BIOMODEL4REGIONS Type of action: CSA Start date: 1 July 2022 End date: 30 June 2025 https://www.biomodel4regions.eu/ CIAOTECH Srl (Italy) Dr. Patrizia Circelli, PhD p.circelli@ciaotech.com</p> | <p>BIOECONOMY CLUSTER, Slovakia BIOFUEL REGION BFR AB, Sweden CLUSTER VIOOIKONOMIAS KAI PERIVALLONTOS DYTIKIS MAKEDONIAS, Greece ICLEI EUROPEAN SECRETARIAT GMBH (ICLEI EUROPA SEKRETARIAT GMBH), Germany SPRING SUSTAINABLE PROCESSES AND RESOURCES FOR INNOVATION AND NATIONAL GROWTH, Italy STOWARZYSZENIE ZACHODNIOPOMORSKI KLASTER CHEMICZNY ZIELONA CHEMIA, Poland STICHTING CIRCULAR BIOBASED DELTA, Netherlands RISE PROCESSUM AB, Sweden STICHTING WAGENINGEN RESEARCH, Netherlands</p> | <p>BIOMODEL4REGIONS project aims to establish innovative governance models at local/regional levels to achieve better decision-making processes, social engagement, and innovation, to support the Sustainable Development Goals. The project's methodology is based on setting up a governance structure among bioeconomy clusters, leveraging previous successful projects, initiatives, and best practices to capitalize on years of research and studies in the bioeconomy field. The project will demonstrate its results in six pilot regions chosen within the clusters' network. The project aims to strengthen the EU and international science-policy interfaces.</p> | <p>BIOMODEL4REGIONS and Biocircularities have potential synergies in promoting sustainable development through innovation and governance models. Both projects can share experiences and best practices in stakeholder engagement to enhance social participation and support informed decision-making processes. Furthermore, the pilot regions chosen in the BIOMODEL4REGIONS project can provide an opportunity for disseminating Biocircularities results and enhancing the visibility of the project.</p> |
| 25 | <p>SUSTRACK Type of action: HORIZON-AG Start date: 1 Nov 2022 End date: 31 Oct 2025 https://sustrack.eu/ UNIVERSITA DEGLI STUDI DI ROMA UNITELMA SAPIENZA (Italy) Coordinator: Gülsah Yilan Communication team: communication@sustrack.eu</p> | <p>STICHTING WAGENINGEN RESEARCH, Netherlands KNOWLEDGE SRL, Italy PEDAL CONSULTING SRO, Slovakia DBFZ DEUTSCHES BIOMASSEFORSCHUNGSZENTRUM GEMEINNUTZIGE GMBH, Germany - AB Member UNIVERSITEIT GENT, Belgium FUNDACION TECNALIA RESEARCH & INNOVATION, Spain FVA SAS DI LOUIS FERRINI & C, Italy UNIVERSITA DEGLI STUDI DI FERRARA, Italy BUNDESANSTALT FUER MATERIALFORSCHUNG UND -PRUEFUNG, Germany FUNDACION CIRCE CENTRO DE INVESTIGACION DE RECURSOS Y CONSUMOS ENERGETICOS, Spain</p> | <p>The SUSTRACK project aims to facilitate the transition from linear fossil-based systems to circular and bio-based systems, recognizing their potential to achieve multiple Sustainable Development Goals (SDGs). This complex process requires innovative technologies, societal transformations, and multi-actor collaboration. The project focuses on the circular bioeconomy meta-sector as a driver for a new economic model, emphasizing the need for transformative policies, sustainable business models, and critical assessments of the environmental, social, and economic impacts of the current linear economy. By identifying policy priorities and promoting sustainable practices, SUSTRACK aims to contribute to a more sustainable and circular future.</p> | <p>Alignment in objectives: Both Biocircularities and SUSTRACK projects share a common objective of promoting the transition from linear fossil-based systems to circular and bio-based systems. Focus on circular bioeconomy: Both projects recognize the circular bioeconomy as a crucial driver for achieving sustainability goals and emphasize the importance of transformative policies and sustainable business models in this sector. Multi-actor collaboration: Both projects acknowledge the significance of multi-actor collaboration in implementing innovative technologies and societal transformations required for a circular and bio-based economy. Policy priorities: Biocircularities and SUSTRACK projects contribute to identifying policy priorities and recommendations for promoting sustainable practices and facilitating the transition to a circular and bio-based economy.</p> |

| No. | Project Name/ General Data/Website/ Coordinator/Contact Details | Participating partners (existing institutional contacts in bold> | Main objective of project | Common topics (potential to synergies) with Biocircular cities |
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| Finished Projects | | | | |
| 26 | <p>BIOEASTsUP Type of Action: CSA Start Date: 1 October 2019 End Date: 30 September 2022 https://bioeast.eu INSTYTUT UPRAWY NAWOZENIA I GLEBOZNAWSTWA, PANSTWOWY INSTYTUT BADAWCZY (Poland) Barna Kovacs barna.kovacs@mfa.gov.hu</p> | <p>VYTAUTO DIDZIOJO UNIVERSITETAS (LITHUANIA) MINISTERSTVO PODOHOSPODARSTVA A ROZVOJA VIDIEKA SLOVENSKEJ REPUBLIKY (SLOVAKIA) NARODNE POL'NOHOSPODARSKE A POTRAVINARSKIE CENTRUM (SLOVAKIA) NARODNE LESNICKE CENTRUM (SLOVAKIA) HYDROMELIORACIE, STATNY PODNIK (SLOVAKIA) UNIVERZA V LJUBLJANI (SLOVENIA) KEMIJSKI INSTITUT (SLOVENIA) GOZDARSKI INSTITUT SLOVENIJE (SLOVENIA) INSTITUT ZA CELULOZO IN PAPIR (SLOVENIA) MINISTRSTVO ZA KMETIJSTVO GOZDARSTVO IN PREHRANO (SLOVENIA) ENERGETSKI INSTITUT HRVOJE POZAR (CROATIA) LUONNONVARAKESKUS (FINLAND) FACHAGENTUR NACHWACHSENDE ROHSTOFFE EV (GERMANY) INSTITUTE OF AGRICULTURAL ECONOMICS (ROMANIA) EUROPEAN RURAL DEVELOPMENT NETWORK (POLAND) EUROPA MEDIA SZOLGALTATO NON PROFITKOZHASZNU KFT (HUNGARY) QUADRO SYNERGY LTD (BULGARIA) AKI AGRARKOZGAZDASAGI INTEZET NONPROFIT KFT (HUNGARY)</p> | <p>The BIOEASTsUP project aimed to develop cross-sectorial approaches and strategies for the development of national circular economy and bioeconomy strategies in the CEE region, aligned with the EU bioeconomy strategy and common BIOEAST Initiative goals. The project established a multi-stakeholder network and cluster to facilitate joint actions, identified common challenges for a Strategic Research and Innovation Agenda, and mapped and provided data-driven support for the development and implementation of policies. The project also aimed to increase expertise through training and capacity building actions, develop synergies to promote sustainable and circular economic growth, and increase public awareness of the research and innovation potential in the macro-region.</p> | <p>Utilizing the multi-stakeholder network and cluster established under BIOEASTsUP to facilitate joint actions and cooperation between various stakeholders in the bioeconomy sector. Building on the capacity building and training actions developed by BIOEASTsUP to increase the expertise of actors involved in the bioeconomy, which could help in the dissemination of knowledge and best practices in the implementation of circular bioeconomy projects. Leveraging the experience and knowledge gained from the development of a cross-sectorial approach for the development of national circular economy and bioeconomy strategies to inform the development of similar strategies in the context of Biocircularities. BIOREGIO and Biocircularities have a potential synergy in sharing best practices and technologies related to bio-based circular economy and regional biological streams. BIOREGIO's experience in defining activities for the development of policy instruments, interregional events, expert papers, and regional dissemination events can be useful for Biocircularities to learn from and replicate in their own work. Additionally, the best available technologies and cooperation models transferred by BIOREGIO can be utilized by Biocircularities to enhance their approach towards a circular bioeconomy.</p> |
| 27 | <p>BIOREGIO Type of Action: Start Date: 1 Jan 2017 End Date: 31 Dec 2021 https://projects2014-2020.interregeurope.eu/bioregio/ LAB University of Applied Sciences (Finland) Susanna Vanhamäki susanna.vanhamaki@lab.fi</p> | <p>Regional Council of Pääjät-Häme - Finland Aristotle University of Thessaloniki – Special Account for Research Funds – Greece National Research and Development Institute for Chemistry and Petrochemistry ICECHIM, Calarasi Subsidiary - Romania</p> | <p>BIOREGIO aimed to improve knowledge and increase recycling rates of biological materials to promote a bio-based circular economy through the transfer of expertise about best available technologies and cooperation models. The project defined activities to develop policy instruments and best practices, proposed actions to boost participation through stakeholder group meetings and events, and produced policy briefs, expert papers, and regional dissemination events to share information. The project also focused on cooperation models, such as ecosystems and networks, and best available technologies, including bio refinery and biogas production.</p> | <p>BIOREGIO's experience in defining activities for the development of policy instruments, interregional events, expert papers, and regional dissemination events can be useful for Biocircularities to learn from and replicate in their own work. Additionally, the best available technologies and cooperation models transferred by BIOREGIO can be utilized by Biocircularities to enhance their approach towards a circular bioeconomy.</p> |
| 28 | <p>Type of Action: Start Date: 1 Apr 2016 End Date: 30 Sep 2020 https://www.interregeurope.eu/cesme/ ORGANISATION FOR LOCAL DEVELOPMENT, ANATOLIKI SA (Greece) Mette Schjøt Høj +45 22 44 70 30.</p> | <p>Regional Council of South Ostrobothnia (Finland)</p> | <p>The CESME project aimed to enhance SMEs' involvement in the circular economy through identifying good practices in interregional meetings. The project designed a Circular Economy Toolkit and a White Book to guide SMEs on circular initiatives, which were implemented and tested for feedback and adaptation. The project partners improved the effectiveness of policy instruments based on the expected impact of these initiatives, making them replicable tools across the EU.</p> | <p>CESME's Circular Economy Toolkit and White Book could serve as valuable resources for best practices and step-by-step guidance in circular initiatives that could be applied to the bio-based circular economy in Biocircularities.</p> |

| No. | Project Name/ General Data/Website/ Coordinator/Contact Details | Participating partners (existing institutional contacts in bold) | Main objective of project | Common topics (potential to synergies) with Biocircularities |
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| 29 | <p>DECISIVE Type of Action: IA Start Date: 1 September 2016 End Date: 31 October 2021 http://www.decisive2020.eu/ INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT (France) info@decisive2020.eu</p> | <p>UNIVERSIDAD AUTONOMA DE BARCELONA - SPAIN AARHUS UNIVERSITET- DENMARK TECHNISCHE UNIVERSITAT HAMBURG -GERMANY FUNDACIO ENT- SPAIN INNOVATIVE TECHNOLOGICAL SYSTEMS SRL - ITALY AERIS TECNOLOGIAS AMBIENTALES SL - SPAIN ASSOCIATION DES VILLES ET REGIONS POUR LA GESTION DURABLE DES RESSOURCES - BELGIUM AGENCIA DE RESIDUOS DE CATALUNYA - SPAIN PSUTEK SPRL - BELGIUM SUEZ GROUPE -FRANCE HELMHOLTZ-ZENTRUM FUR OZEANFORSCHUNG KIEL (GEOMAR) - GERMANY REFARMERS - FRANCE A&T 2000 SPA - ITALY</p> | <p>The DECISIVE project aimed to promote citizens' awareness about waste costs and values, promote renewable energy production and use, develop an industrial ecology approach to integrate urban and peri-urban areas, and create new business opportunities and jobs. To achieve these objectives, the project developed and demonstrated eco-innovative solutions, including a decision support tool to plan, design and assess efficient decentralised management networks for biowaste in urban areas and eco-designed solid-state fermentation processes.</p> | <p>While the DECISIVE project has already ended, the outputs and findings could be used to inform the development of the Biocircularities webtool and improve its effectiveness in promoting circular economy approaches for biowaste management in cities.</p> |
| 30 | <p>REHAP Type of Action: IA Start Date: 01 Oct 2016 End Date: 31 Mar 2021 https://www.rehap.eu.com/ FUNDACION TECNALIA RESEARCH & INNOVATION (Spain) Dr. Aitor Barrio, PhD. aitor.barrio@tecnalia.com</p> | <p>TEKNOLOGIAN TUTKIMUSKESKUS VTT OY -Finland UNIVERSITAET AUGSBURG - Germany RINA CONSULTING SPA -Italy RINA SERVICES SPA - Italy COLLANTI CONCORDE SRL - Italy FORESA INDUSTRIAS QUIMICAS DEL NOROESTE SA - Spain FORESA TECHNOLOGIES S.L. -Spain RAMPF ECO SOLUTIONS GMBH & CO. KG - Germany INSIGHT PUBLISHERS LIMITED - United Kingdom HOLCIM INNOVATION CENTER SAS - France BIO BASE EUROPE PILOT PLANT VZW - Belgium NOVAMONT SPA - Italy MATER-BIOTECH SPA - Italy CROMOGENIA UNITS SA - Spain INGEG S.R.L - Italy BIOSYNCAUCHO SOCIEDAD LIMITADA - Spain FUNDACION CARTIF - Spain INSIGHT MEDIA GROUP LTD - United Kingdom</p> | <p>The REHAP project aimed to develop sustainable and eco-friendly products from natural waste materials. The project successfully developed methods to convert natural wastes into sustainable polyurethanes, which were used to develop insulation foams and adhesives, as well as fire retardant products. The project also developed new high-performance bio-resins to produce eco-friendly wooden panels, produced eco-friendly sustainable cement with improved properties, and designed an environmentally sustainable and fire-resistant construction solution. Finally, the project demonstrated the sustainability and business potential of these eco-friendly products compared to existing solutions.</p> | <p>The REHAP project's development of eco-friendly and sustainable products, along with its strategy to demonstrate their sustainability potential, can be useful for the Biocircularities project. BCC can potentially exploit REHAP's work by utilizing the demonstration strategy for alternative scenarios for selected value chains, which can show the business as usual and alternative scenarios for sustainable products. This can help promote the development and adoption of more eco-friendly and sustainable products within the circular economy.</p> |
| 31 | <p>US4GREENCHEM Type of Action: BBI-RIA Start Date: 1 July 2015 End Date: 30 June 2019 https://www.us4greenchem.com/ VEREIN ZUR FORDERUNG DES TECHNOLOGIETRANSFERS AN DER HOCHSCHULE BREMERHAVEN EV (Germany) info@ttz-bremerhaven.de</p> | <p>UNIVERSITA DEGLI STUDI DI TORINO - Italy WEBER ULTRASONICS AG - Germany ENVIRONMENTAL SYSTEMS GMBH - Germany TEKNOLOGIAN TUTKIMUSKESKUS VTT OY - Finland UAB BIOCENTRAS - Lithuania LATVIJAS VALSTS KOKSNES KIMIJAS INSTITUTS- Latvia FEYECON DEVELOPMENT & IMPLEMENTATION BV - Netherlands FUNDACION TECNALIA RESEARCH & INNOVATION - Spain JOWAT SE - Germany</p> | <p>The US4GREENCHEM project aimed to design a biorefinery concept for the complete valorization of lignocellulosic biomass using green technologies. The project developed ultrasound pretreatment and CO2 technologies to maximize the release of sugars as the main target products. It also developed purification and conversion strategies for lignin-based products, optimized enzymatic hydrolysis of cellulose fibers, and tested for fermentability of the sugar fraction. The project evaluated the potential economic and environmental impacts of the proposed concept and compared it to existing technologies on the market.</p> | <p>Biocircularities can exploit the outcomes of US4GREENCHEM by incorporating the developed technologies and strategies into their webtool, thereby providing innovative solutions for the conversion of biomass into high-value products, as well as assessing their economic and environmental impact compared to existing technologies.</p> |



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