



GREENOMED NEWSLETTER

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The Second GREENOMED Conference in Barcelona, Spain

On 11th of April 2019, GREENOMED held its second conference in CCIB Centre in Barcelona, Spain, targeting the industrial stakeholders of the MED area. The conference took place within the framework of ADVANCED FACTORIES 2019, the meeting point for industrial innovation in Barcelona.

The second GREENOMED conference aimed at fostering interregional cooperation among different agents of the innovation ecosystem, promoting the use of advanced technologies for Green Manufacturing as means to increase regional competitiveness, and emphasising the role of clusters as facilitators of both interregional cooperation and the use of new advanced technologies. In particular the event addressed industrial companies and clusters as main beneficiaries of GREENOMED methodology tested during the project. The conference hosted speakers at European, National and Regional levels and was organized into two parts: plenary morning sessions, and parallel workshop sessions in the afternoon.

After an opening session introducing green manufacturing and GREENOMED project, the first morning session was a panel focused on the barriers and challenges for interregional collaboration for Green Manufacturing innovation and the role of clusters and companies in this regard. The panellists were representing different types of stakeholders from various MED regions including clusters, policy makers and SMEs. During the discussions, the existing barriers and challenges on technological, knowhow, organisational, market, financial, cultural and policy aspects were discussed. The second morning session was focused on GREENOMED methodology as the tool for

trans-regional collaboration on green manufacturing innovation. In particular, the testing partners explained their experiences implementing the GREENOMED methodology in their regions considering the different features in each region.

In the afternoon, using Design Thinking methodology 5 parallel thematic workshops were settled on the main topics of interest of the GREENOMED testing partners (Smart Plastics, Circular Economy, Food Manufacturing, Energy Efficiency and Bio-Economy). Participants had the chance to know in more detail about the topics on the interregional working groups, their topics of interest and the opportunities for collaboration at interregional level.



The second part of afternoon session was dedicated to a matchmaking session to provide the opportunity of networking and exploration of potential collaborations among the industrial stakeholders.

The 2nd GREENOMED conference provided also the opportunity for communication at horizontal and Programme levels by having speakers and participants from the MED Programme and Green Growth community. You can find the video of the second conference in GREENOMED YouTube channel: <https://www.youtube.com/watch?v=qcy81CVyFCI>



Look Around 360 AR/VR Laboratory at Technology Park Ljubljana, Slovenia

Technology Park Ljubljana opened the augmented reality/virtual reality laboratory called **Look Around 360** in March 2019. The newly established laboratory is equipped with state-of-the-art equipment and is unique in the way it operates in the Slovenian testing "landscape".

4 x Oculus Rift

1 x HTC Vive

1 x Microsoft Hololens

1 x Vuze 360 camera

2 x Oculus GO

2 x Samsung Gear VR

3D projector

10 x Carbord



The Living Lab operates as an open Laboratory and is accessible to a wide range of stakeholders: faculties, students, research organizations, companies and enthusiasts in this field. The Lab especially targets companies that are members of the Technology park Ljubljana ecosystem, but also other companies in Slovenia.

Highly qualified mentors from LASIM Lab (Faculty of electronics, University of Ljubljana) and Zavod 404 support all stakeholders.



The AR/VR lab at Technology park Ljubljana represents a start of the art innovation area supporting providers of technological solutions to embed them in the manufacturing sector, understanding the processes efficiency and risks. In the first month after opening three collaborations on cases in the field of green technologies took place in the Look Around 360 Laboratory. The Slovenian company Logon, which core business is the development of advanced software solutions adapted to the specific requirements of customers, presented its product (case) in the Look Around 360 Lab to a high-level delegation of experts (The Surveying and Mapping Authority of the Republic of Slovenia, Ministry of the environment and spatial planning) and hydro power plant representatives (Šoča river hydro power plant, Sava river hydro power plant). The product deals with renewable energy sources and the placement of new water plants on the lower Sava River.

The company Syntech presented the detailed composition and operation of their new patented evaporator using AR/VR technology to investors and future business partners, with which synthetic gases are derived from the garbage.



The Lab Look Around 360 is definitely in line with the Vanguard philosophy of “Living Labs”, also by securing economic growth and employment through regional cooperation in the field of industry, co-creation and co-investment. In this regard, the opening of the Lab is also aimed at education and raising awareness about importance of green technologies, especially from the point of view of digitization and visualization of processes, the development of new ecological products, and the visualization of possible solutions, which also means saving resources in the phase of developing a product.

The greatest emphasis will be on education, because if you can plan, present and understand the processes, then you have made a big step towards the users, the customer and the understanding of investors.

PROJECT PROGRESS

During the period of April - May 2019, the activities of GREENOMED progressed further with a specific focus on transferring and establishment of interregional collaboration and going on with the testing and living lab activities. The dissemination activities are ongoing in parallel as in previous periods, spreading awareness on the project and disseminating the intermediary results. More in detail:

- The Second GREENOMED conference took place on 11 April 2019 in Barcelona

where several companies, clusters, universities and RTOs from MED regions attended the conference and participated the working sessions to establish collaboration opportunities around the green manufacturing topics identified under the frame of GREENOMED project.

- The GREENOMED Internal project meeting took place on April 10th in Barcelona hosted by EURECAT.
- The living labs activity progressed by organisation of a regional living lab event on 8 April in Varazdin by CCE and an interregional living lab event on 12 April in Cerdanyola by EURECAT.
- Transfer activities progressed by fixing the dates of transfer events in some regions and preparation of transfer training materials.
- The 8th GREENOMED Steering Committee meeting was held on 27 May 2019.
- **Around 15 dissemination activities** were carried out by all the partners to enlarge GREENOMED community, engaging several stakeholders in testing activities, including companies, universities, and research centres.

WHAT'S HAPPENED IN GREENOMED? (Apr – May 2019)

GREENOMED SECOND CONFERENCE in Barcelona, Spain

The GREENOMED second conference took place **on 11 April 2019 in Barcelona**. The event gathered several stakeholders from MED regions in particular companies, clusters, RTOs and universities and provided an opportunity of synergy exploration, and of collaboration between the industrial



stakeholders for the most innovative green manufacturing topics and technologies.

The morning session was divided into two panels. During the first panel, experts representing clusters, companies and Regional authorities discussed about the barriers and challenges for interregional collaboration for uptake of green manufacturing innovation. During the second panel GREENOMED partners had the opportunity of describe their experience of implementing the GREENOMED methodology to overcome the barriers for a transition towards green manufacturing in their regions.

During the afternoon, participants had the opportunity to attend the thematic working sessions, which aimed at initiating discussion between companies, clusters, RTOs and universities from different MED regions about the implications and application of the green manufacturing technologies around 5 themes of plastics, circular economy, energy-efficiency, agri-food manufacturing and bio-economy. There conference ended with a matchmaking session to provide the opportunity of networking and exploration of potential collaborations among the industrial stakeholders.

Plastipolis General Assembly in Dijon, France

On 21st of May 2019, the Plastipolis General Assembly took place in the city of Dijon, France. This event was the opportunity for all Plastipolis members (companies, universities and public authorities) to understand the main actions for the cluster. This event gathered around 60 people and its program was divided into different parts:

- Plastipolis strategy for 2019-2022 period.

- Presentation of new members of the Board.
- Focus on companies involved in innovation projects.
- Presentation of all European projects, including GREENOMED project with a focus on smart plastics.
- Focus on the circular economy of plastics industry, through European projects but also regional collaboration with public authority.
- Presentation of the Bioplastics Club.
- Focus on the collaboration with Xylofutur, the national wood cluster.



As GREENOMED project concerns one of the main strategic topics for Plastipolis, some members of the GREENOMED working group participated in Plastipolis General Assembly. Companies and public authority could understand the objectives of GREENOMED, but also its benefits for regional stakeholders.

Marche Polytechnic University - CAREER DAY event in Ancona, Italy

On 15th of May 2019, the 6th edition of the Career Day at Marche Polytechnic University



took place in their premises in the city of Ancona in Italy. Our partner Cluster Marche Manufacturing (ACMM) attended the event with an informative desk to disseminate the activities carried out within the framework of the Greenomed Project among students and professors that showed interest on it.

In particular, ACMM spread our project through brochures and information materials, in order to raise awareness about the topic of Greenomed. During this event, our partner reached out a group of 5 students and 5 professors.



Greenomed Living Lab in Varaždin cooperates in green topic of circular economy, Croatia

On 8th of April 2019, the Croatian Chamber of Economy –Varaždin and the Geotehcnical Faculty in Varaždin signed a cooperation agreement during the Open Door Day event at the Faculty.

The agreement, on cooperation in professional, scientific, research, development and educational projects was signed by Dragutin Gložinić, President of the CCE - Varaždin and prof. dr. Ranko Biondić, Dean of the Geotechnical Faculty.

During this event, our partner CCE presented the Greenomed project. Moreover, the newly established Living Lab will develop technological innovations in the field of circular economy in cooperation with regional

production companies. *“The idea is to connect regional companies that have specific problems related to the circular economy with quality researcher teams as well with European laboratories and companies using international project contacts. The concrete interest is to create a checkpoint where our entrepreneurs can come with concrete problems and obtain the guidelines or solutions”* - said the president of the CCE Varaždin County Chamber.

Dean Biondić added that this is a very important agreement for the faculty – *“Through the Croatian Chamber of Economy we approach the industry as the final beneficiary, not only of our services, but also as our partner when our students enter labour market”* - said the Dean of the Geotechnical Faculty.

Doc. dr. sc. Aleksandra Anić Vučinić, head of the Laboratory for Environmental Engineering emphasized the importance of cooperation with the CCE -Varaždin in promoting the whole eco system of the region. – *“Living lab is a platform that opens up a huge space to fulfil our goals. And that is to put our knowledge, capabilities and capacities we have to the service of the companies and to contribute to the development of production and ultimately the entire region and Croatia. Students will have the opportunity to work and collaborate on real projects. From the beginning, we will prepare them through this living lab and prepare future projects for real life”* - said Anić Vučinić.





The Department of Environmental Engineering offers a new postgraduate study program and all problems related to circular economy indicated from the industry could be additionally researched through the doctoral thesis in frame of the Living Lab. On the other hand, the Greenomed Living Lab Circular Economy has project ideas which could for sure boost the entrepreneurial activity and regional innovation system in respective field. The set of technologies that would be addressed in the Living Lab are:

- “closing the loop” in the recycling process of waste to contribute the circular economy and environmental protection, where waste from one industry becomes raw material in the other industry;
- eco-innovations;
- environmental product declarations;
- testing and application of new and alternative methods of water and air purification in the semi-industrial scale, including photo catalytic engineering, recognized as the alternative best available technique;
- research and development of chemical sensors and biosensors for use in the environment, industry and biomedicine, particularly fast and cheap point-of-care for agriculture and agronomy, food industry, etc.

Joining the new concept „closing the loop“, we will enable systematic transition in coming years from linear to circular economy and take over responsibility on time for potential opportunities and challenges for regional ecosystem. Greenomed Living Lab, located in the Laboratory for Environmental Engineering was formally opened and presented to general public.

Innovation Marketplace Day in Ancona, Italy

On the 17th of May 2019, the “Innovation Marketplace Day” took place in the premises of the Palaindoor building in Ancona, Italy. The event focused on the topics of matchmaking, networking and innovation.

Association Cluster Marche Manufacturing participated to the event with an informative desk, with the aim of disseminating our Greenomed project and communicating its main goals through the distribution of flyers and brochures. Three companies attending the event showed interest about the Project’s topics, prompting our partner to provide more information about it.



Let’s have a look inside the local working activities of GREENOMED in the Region of Central Macedonia

On the 17th of May 2019, i-BEC organized at its premises a working session with the working group «RETAIN», one of the three local GREENOMED working groups of the Region of Central Macedonia. The main idea behind this regional cooperation is to create an industrial symbiotic network in order to exploit the residuals and by-products of agro-energy industries (Biodiesel and Biogas plants) to produce feed and food ingredients through microalgae cultivation.

The main scope of this working session was the preparation of the Business Plan as a follow-up



activity of the extended concept note that has been created the previous period regarding the orchestration of a pilot plant in the Region of Central Macedonia. Moreover, at the beginning of the session, all the participants were informed about the outcomes of the Second GREENOMED project, which was held in Barcelona on 11th April and in which i-BEC and SINOCHE participated in the Bio-economy workshop as well as for the possibility of establishing a trans-regional synergy with the Lombardy Green Chemistry Cluster (Italy).



At the working session attended the representatives of four SMEs of the Region of Central Macedonia, HORIZON DIATROFIKI MONOPROSOPIKI IKE, Armonia Cert, Spirulina Nigrita S.A., and Social Cooperation Enterprise 'Sinoche'. The scientific advisory board consisted of Prof. George Zalidis and Dr. Natasa Tsirika from the School of Agriculture of Aristotle University of Thessaloniki and Prof. Konstantinos Triantafillidis from the School of Chemistry from the same University.

During this working session and after providing some clarifications from the side of I-BEC and the Scientific Advisory Board, the local working group proceeded in details regarding technological, logistical and economic aspects of this cooperation; then creating a skeleton of the Business Plan. During the upcoming period, i-BEC will organize a working session for the other two local working groups of the Region of Central Macedonia (BIO2CHP and EOGAS).

WHAT'S NEXT IN GREENOMED? (Jun – Jul 2019)

First GREENOMED transfer event in Lombardy, Italy

On the 26th of June 2019, the first transfer event of GREENOMED project will take place in Innovhub, Milano. The event organised by CNR-STIIMA, AFIL and ACMM aims at transferring the GREENOMED methodology to other Italian clusters which are not a part of GREENOMED consortium. Clusters from Lombardy, Puglia, Veneto, Liguria and Emilia-Romagna are invited to the event.

i-BEC Working Group meeting and visit to Living Lab in Greece, Region of Central Macedonia

On the 28th of June 2019, i-BEC will organize a working group meeting on the exploitation of agro-food and agro-energy industries, by involving companies from the working groups created within the framework of Greenomed and other local SMEs interested to the topic. After a short presentation of the on-going testing activities in the Region of Central Macedonia, companies will have the opportunity to visit the Living Lab of i-BEC dealing with chemical analyses of biomass as well as with microalgae cultivation in different polluted growth mediums.

GREENOMED in R&D Management Conference in Paris, France

From the 19th to the 21st of June 2019, the R&D Management Conference will take place in the city of Paris in France. This conference is an international gathering of academics and practitioners interested in the study of research,



development, technology management and innovation. GREENOMED will attend the Conference to present some insights from the project in the form of a scientific publication. The conference provides a valuable means of communication and exchange of ideas among academics and practitioners. The edition of this year will be under the theme “The Innovation Challenge: Bridging Research, Industry and Society”.

the opportunity to raise awareness about the project GREENOMED.

ACMM General Assembly in Ancona, Italy

On the 12th of June 2019 will take place the general assembly of Cluster Marche Manufacturing. It will be an important meeting for companies, universities and research centres associated to ACMM to have an overview on the actual state of the art about ongoing calls and activities. The goal of the event is to promote new synergies and networking among actors involved.

During the assembly, a special focus will be dedicated to our Greenomed Project, able to create critical mass around the eco sustainable topic within companies of the territory.

Bootalps 2.0: CIRCULAR ECONOMY TO BOOST MACROREGIONAL SUSTAINABLE GROWTH in Lombardy, Italy

On the 3rd and 4th of July 2019, in the framework of EUSALP Italian Presidency 2019, focused on sustainable growth and circular economy in the Alpine area, will take place the high-level conference and thematic workshop BOOSTALPs 2.0. The event is organized and promoted by Confindustria Lombardia and Lombardy Region, open to the participation of other regions and various types of stakeholders. Followed by bilateral international meetings dedicated to the textile value chain, the event aims at fostering circular economy business as well as R&D synergies and collaborations, in which our partners will take



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