



## GREENOMED NEWSLETTER

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## ESTABLISHMENT OF REGIONAL WORKING GROUPS BY ACMM TO DEVELOP PILOT PLANTS

The economical context of Marche Region is characterized by a widespread industrial manufacturing system, where the integration between the research system and the production system can strengthen the development of networks among companies.

In line with GREENOMED Project objectives to provide services to spread green manufacturing solutions among companies, the ACMM along with its regional working group identified topics related to sustainable manufacturing and its improvement, through adopting a bottom up approach in which needs and priorities in terms of green manufacturing were raised by the regional stakeholders

The starting point was based on the concept that the development of Pilot Plant represents a concrete opportunity for the local territory, contributing to create a more sustainable system and a considerable critical mass around the eco-sustainable field, with benefits for all the involved stakeholders.

Considering all these aspects, the ACMM started to figure out which companies and research centres from the territory could be engaged in the identification process of strategic topics in order to develop Pilot Plants, according to their capabilities and services.

The proposed core group consists on the idea of local companies to work together in order to develop sustainable manufacturing solutions for their manufacturing processes. In particular, the main goal of the group is to understand how to recycle and re-use the production waste in composite and raw materials, coming from different manufacturing sectors, in order to improve the adoption of best practices linked to the circular economy topic. Composite

materials represent a cost for companies, thus the aim of the core group of Marche Region is to convert these costs to revenues.

The ACMM was able to find a common ground for the two identified working groups, about the de-manufacturing topic and the industrial symbiosis. The two identified working groups together are able to boost the development of Pilot Plants, with a concrete involvement of all the actors operating in the sustainable manufacturing field. In particular, the ACMM identified 2 different core groups focusing on:

- energy efficiency, in particular the industrial symbiosis.
- De and Re-manufacturing, In particular the re-using process of recycled materials.

The first working group is still at the initial phase of definition; while the second group has been already established and ready to sign a letter of interest.



Along with companies, local research centres and two University's Laboratories from Polytechnic University of Marche are engaged in the working groups in order to have an optimal configuration of Pilot Plants. From the Regional side, Pilot Plants will represent a concrete opportunity to give a boost to green and sustainable solutions within the manufacturing sector, empowered by the creation of strong synergies among local companies, with benefits for all the actors involved.



On 13th of July 2018 a meeting was held with participation of the companies interested in the development of the demo case about the de and re-manufacturing process of recycled materials. During this meeting relevant information to first create the concept note of the demo-case and eventually prepare a business plan was collected. The de-manufacturing working group involves 15 stakeholders, including the 2 Regional Universities and the district of composite materials. The core group is working with already existing Living Labs and the laboratory of Polytechnic University of Marche, in order to evaluate the chance to set up a Pilot Plant.

## SLOVENIA ON THE WAY TO DEFINE THE TOPICS OF PILOT PLANTS

On **18<sup>th</sup> of July 2018**, GREENOMED project partners (Technology park Ljubljana and Pomurje Technology Park) together with Strategic Research Innovation Partnership (SRIP) Factories of The Future organized a **Greenomed Workshop** under the frame of GREENOMED testing activities at Jožef Stefan Institute in Ljubljana, Slovenia.

Mr. Giacomo Copani from CNR (the project coordinator) and Prof. Marcello Colledani from Politecnico di Milano attended the event as the key speakers of the workshop.



The morning session was devoted to presenting the Vanguard initiative on opportunities for industry players within the GREENOMED project.

In the afternoon, two workshops were held in parallel. The first was focused on **presenting the ideas of pilot use-cases in the food industry** and as well as the Strategic Research Innovation Partnership (SRIP) Food. The workshop explored the possibilities of implementing the Slovenian Smart Specialization Strategy (especially focusing on food issues in alliance with circular economy) as one of the new possible topics for demo cases in the Vanguard initiative.

The second workshop was focused on the **possibilities of cooperation and various opportunities within De- and Re-manufacturing pilot**. Current use cases within the pilot were discussed and the possibility of implementing new use cases was raised by researchers from Institute Jožef Stefan presenting possible new use cases such as using high-tech chemistry processes for re-using industrial glass as a new building material.

The progress of testing activities in Slovenia is ongoing and partners are in the process of identifying the most progressive topics and developing the ideas to be used as a new use case within the Vanguard initiative.

With the support of CNR the events could promote investment in Smart Specialization and establish new ways for efficient and sustainable manufacturing.

On the other hand, on **29<sup>th</sup> of August 2018**, Pomurje Technology Park co-organised a workshop in the international conference of "Transformation of agrifood sector through novel forms of local delivery, digitalisation and partnerships" which was held in the framework of 56th International Agricultural-Food Fair AGRA.



The workshop which was organised in the frame of GREENOMED testing activities under the light of SRIP Food got together the already formed working group of RTO's working on **smart packaging for food industry** to push forward the process of topic identification for the pilot plant in food manufacturing in Slovenia. In particular, focused talks took place with Dr. Milan Mozetič from Institute Jozef Stefan around the topic of plasma use in food industry and with the representatives of Institute about Environmental Protection and Sensors.



PTP continued its activities of mobilisation of regional stakeholders after the event by engaging University of Maribor/Faculty of Mechanical Engineering which is a leader of the smart packaging project (cold plasma) and Institute of Oliveculture both for testing activities and living labs.

## PROJECT PROGRESS

During August and September 2018, the activities of GREENOMED were mainly focused on progress of testing activities and development of living labs. Dissemination activities were on-going in parallel with diffusing information about the project. In particular:

- Events and activities took place to mobilise regional stakeholders in several regions to create the working groups and identify topics for pilot plants. A GREENOMED testing event was held in **Rhone-Alpes** in September and workshops were held in **Slovenia, Marche, and Croatia**.
- Bilateral meetings with interested stakeholder were organized in **Croatia** in terms of living labs and generation of **key topics**.
- **7 dissemination activities** were carried out by all the partners to enlarge GREENOMED community, engaging several stakeholders in the testing activities including companies, universities, and research centres.
- The first activities to organise the **second GREENOMED conference** in April 2019 in Barcelona as well as the **GREENOMED political event** in December 2018 were started and are in progress.
- Communication at **horizontal level** was undertaken by interacting with Green Growth community about the planned events in **Ecomondo 2018** in Rimini and the **third transnational green Growth event** in Albania.
- GREENOMED closed its **3<sup>rd</sup> reporting period** delivering 14 deliverables as planned.

## WHAT'S HAPPENED IN GREENOMED? (Aug 2018 – Sep 2018)

### Green Tech Forum Bled 2018

On **12th of September** the Green Tech Forum was held at the IEDC Business School in **Bled, Slovenia**. The forum elaborated on the challenges of the green economy and how innovations may bring new global opportunities in the environmental, social and economic spheres. Technology Park Ljubljana, as a GREENOMED project partner, attended the event in order to further expose the Slovenian green economy and make bilateral and international connections. The event was organized by the Center for Energy Efficient Solutions (CER) Slovenia.



### Transformation of Agri-food Sector through Novel Forms of Local Delivery, Digitalisation and Partnerships

Pomurje Technology Park as one of the Slovenian partners of GREENOMED organised on **27th of August 2018** the international conference of "Transformation of agrifood sector through novel forms of local delivery, digitalisation and partnerships" in the framework of 56th International Agricultural-Food Fair AGRA.



The conference was focused on mobilising different stakeholders in agrifood sector, who are taking part in local food production and supply, as well as those looking for local food suppliers (public sector, tourism sector) under the light that the whole agrifood sector is heading towards new forms of cooperation in order to be able to respond to increasing demand for increasing production, quality and efficiency. To this end, the conference was a good opportunity for stakeholders at policy level, concrete solution providers, R&D organizations and business support organizations on one hand and farmers, farmer organizations and food processing industry on the other.

### Smart Plastics Congress

The Smart Plastics Congress 2018 took place in **Besançon** on **27th and 28th of September**, in parallel with Micronora fair which gets together experts in micro-nano technologies from all over Europe. The congress dealt with plastronics topic and welcomed around 70 participants from France, but also from Belgium, Switzerland, Spain, Germany and Finland. During the first day, a round table was held to discuss the opportunities and threats of plastronics in plasturgy. On the second day, 10 experts in the field presented about plastronics including Mr. Jordi Romero from Eurecat who explained the Catalonia pilot project on functional plastics. As Plastipolis decided to set plastronics topic as a regional green manufacturing initiative, the conference was quite important for the progress of testing activities in GREENOMED.





## AFIL Speaker Corner at innovA

On **20<sup>th</sup> to 22<sup>nd</sup> of September**, Brixia Forum in **Brescia** hosted innovA, the innovation convention dedicated to the steel and metal sectors. As the most important event in Southern Europe dedicated to the steel industry which is held every two years in Milan, Innova was an opportunity to meet companies and selected startups, designers of innovative projects related to the world of steel, potentially able to revolutionize the way to produce it, distribute it and use it. Digitization, industry 4.0, additive manufacturing and 3D metal printing, online platforms for sales and distribution, training, finance, new materials and sustainability were among the themes that shaped the contents of innovA.



AFIL had a dedicated "Speaker Corner" on the 20th September to present the topics developed in its working group on De-and Remanufacturing with a particular reference to the application in steel sectors and its value

chains. In this regard, GREENOMED project was mentioned as one of the activities that the cluster is carrying out to support the development of the working group network at regional and interregional level.

## International Joint Round Table on Energy Efficiency In Varaždin

The International Joint Round Table on energy efficiency took place in the CCE CC **Varaždin** on **August 29th 2018** with the aim of the promotion of new EU legislation related to energy-efficient buildings that will also have to be applied to public buildings in Croatia from the beginning of next year, while application for all other private buildings will be mandatory from the beginning of 2021.

Recognized international and domestic experts in the field of energy efficiency gave talks for participants who were obliged to adapt to the new legislation, which is especially important for the construction sector.



At this occasion the GREENOMED project activities, goals and promotional materials were presented and introduced to general public mainly, but also to the participating representatives of Industries, Clusters and Universities.

## World Manufacturing Forum 2018

On the **27<sup>th</sup> and 28<sup>th</sup> of September**, CNR attended the 7<sup>th</sup> edition of the World



Manufacturing Forum which was held in **Cernobbio, Italy**. The forum aiming at boosting global manufacturing innovation was mainly focused on innovation priorities in 2030 for manufacturing, International Policies Advancing Manufacturing Development and Global Cooperation, skills for advanced manufacturing, and the social sustainable manufacturing. Moreover discussions took place in the frame of digital transformation of manufacturing and its significant impact for developing economies.

A particular session was dedicated to circular economy as the industry answer to a series of challenges such as waste generation, resource scarcity and sustaining economic benefits. The four panellists Mr Carlos Alvarez-Pereira (Founder and President of Innaxis Foundation & Research Institute), Mr. Flemming Besenbacher (Chairman of Carlsberg Group), Mr. Peter Dröll (Director of Industrial Technologies of DG Research and Innovation of European Commission) and Mr. Jay Rogers (CEO of Local Motors) presented case studies and environmental strategies to demonstrate how a circular economy could benefit the environment while boosting competitiveness and resilience and how the manufacturing sector can achieve the UN Sustainable Development Goals (SDGs).





## WHAT'S NEXT? (Oct 2018 – Nov 2018)

### Il tessile nel manifatturiero 4.0” – “The textile sector in Advanced Manufacturing era

**04**  
OCT 18

 **GREENOMED**

**Il tessile nel manifatturiero 4.0**

AFIL cluster is organising an event focused on textile sector and in particular on innovative solutions and applications of Industry 4.0 technologies.


The event will be held on **4<sup>th</sup> of October** at Kilometro Rosso Innovation hub in **Bergamo** and it will involve a heterogeneous audience of regional stakeholders active in the textile sector or, more in general, interested in Industry 4.0 applications and topics. The agenda will be structured mainly around industrial cases or projects in the area of AFIL working groups:

- De and Remanufacturing
- Energy Efficiency
- Digital & Intelligent manufacturing
- Smart materials
- Additive manufacturing

Considering the objective of the event, the target audience and the reference to the topics of “Green Manufacturing”, it will be a great opportunity to disseminate GREENOMED project among a specific group of regional stakeholders not yet actively and largely involved in the core group. The event will be held in Italian.

## 3rd MED Green Growth Transnational event

**15**  
NOV 18

 **GREEN GROWTH**  
**3rd MED Green Growth  
Transnational event**

On **15<sup>th</sup> and 16<sup>th</sup> of November 2018**, the 3<sup>rd</sup> MED Green Growth transnational event will be held in **Durrës, Albania**.

The event aims to gather the whole Green Growth community and relevant stakeholders of the Mediterranean area and other European regions to jointly discuss about the new challenges of regional and local policy makers in enhancing green innovation in their regions. It will be the first time the MED Green Growth Community is having such an event in the IPA countries, especially in Balkans. Achieving green growth in developing countries is not just a matter of finding the right policy instruments, but also of designing and implementing governance solutions that enable societies to identify, decide on and carry out policies.

GREENOMED will attend the event and will present during the panel of “MED experiences in enhancing green innovation and policies”.

## 3rd MED Green Growth Transnational event

**06**  
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**EXTERNAL EVENT**  
**ECOMONDO – the green  
technologies expo**

On **6<sup>th</sup>-9<sup>th</sup> of November 2018**, ECOMONDO 2018 will take place in **Rimini, Italy**.

Ecomondo is the leading Euro-Mediterranean area green and circular economy expo. It is an international event with an innovative format



that brings together all sectors of the circular economy in a single platform: from material and energy recovery to sustainable development.

The Interreg MED Programme, represented by 6 of its thematic communities (Green Growth, Blue Growth, Renewable Energy, Urban transports, Sustainable Tourism and Biodiversity Protection) is organizing within the expo a session titled “Empowering territories for a Sustainable Mediterranean”. The event aims to create a space of debate and exchange on the approaches and results of the projects under these 6 thematic communities on how to improve the sustainability of the MED territories.

The session is structured into 3 discussion panels, dedicated to the following topics: “Innovation for sustainability in the MED Area”,

“Circular Bioeconomy opportunities and challenges in the MED area” and “Governance, citizens awareness and participation for a Sustainable Mediterranean”.

GREENOMED will attend the meeting and Mr. Giacomo Copani (Project Coordinator) will be a panellist in the “Circular Bioeconomy opportunities and challenges in the MED area” panel discussing about the experiences, results and impacts achieved within the project.

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