



GREENOMED NEWSLETTER

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The role of clusters for establishing an inter-regional cooperation for green manufacturing

“If we want to make Europe’s industry more competitive we need to make a better use of clusters: strengthen their interregional, cross-sectorial and interdisciplinary collaboration in common domains of specialisation”.

This is the consideration of DG REGIO Director General, Marc Lemaitre, during 2018 EU Industry Day highlighting the strategic role of clusters in connecting knowledge and competences around Europe.

Indeed, **clusters** have been conceived as intermediary actors able to gather different types of stakeholder (i.e. Universities, associations, companies and research centres) making their collaboration possible in several fields and with the aim to create an **“open innovation ecosystem”**. This collaboration is never limited to the regional boundaries, but it is always built up in an interregional perspective creating relevant networks on actors interested in achieving the same goals and consequently expanding the benefits of the actions implemented.

Considering the topic of Sustainability, which has been identified by several EU Regions as one of the pillar of **S3 strategy**, there are relevant opportunities coming from interregional cooperation in particular in the field of manufacturing. Accordingly, considering the potential of the clusters, they are the actors that can guide the establishment of **interregional cooperation for green manufacturing** taking care of matching the synergic stakeholders in the different regions, involve different type of stakeholders in the definition of a roadmap for the identification of the sub-topics to be developed at interregional level, build a bridge among regional innovation actors and policy makers highlighting the needs emerged.

AFIL, the cluster for advanced manufacturing in Lombardy, is implementing these activities

since its establishment in 2013, focusing on the topics of **“De-and Remanufacturing”** and **“Sustainable materials and Surface treatments”**. In particular, besides the development of the regional roadmap on advanced manufacturing and the interaction with the regional authority, the cluster is animating the thematic working groups that meet regularly and promote the establishment of networks among companies, especially SMEs, and other regional actors (i.e. universities, research centers, associations....). Moreover, exploiting the potential of the Vanguard Initiative, the clusters has been able to transfer the needs and the projects of the regional working groups to an interregional dimension, in the framework of Efficient and Sustainable Manufacturing pilot.

This is the potential on which GREENOMED project wants to leverage on to generate interregional connections in the area of Green Manufacturing and increase the **innovation capabilities in MED Regions**. The GREENOMED trans-national methodology is particularly designed to be implemented by clusters, as intermediaries of the regional innovation ecosystem, to orchestrate the regional stakeholders in order to design and implement pilot plants for green manufacturing. AFIL as a co-coordinator of the Vanguard ESM demo-case and the orchestrator of the Lombardy de and re-manufacturing working group, contributes to transfer of its experience in this regard to the other clusters of the project who implement the GREENOMED methodology and accordingly offer services to regional stakeholders.

Ampere Lab: hosting a Living lab for GREENOMED in the Auvergne-Rhône-Alpes region, France



Placed at Lyon University, in the **Auvergne-Rhône-Alpes region**, the Ampere Lab carries out research on several domains such as electrical energy, bioengineering, methods for engineering systems and bio-electromagnetism, and microsystems; gathering around 180 people. A research platform involving electric engineering for 3D plastronics was identified by our partner Plastipolis as a suitable candidate for a Living lab under the scope of our project GREENOMED.

In particular, Plastronics will act as a connection between plastics industry and electronics, with a technology relying on electronics engraving on a plastics substratum, which will lead to producing smaller and more compact products. More precisely, the technology includes microcontact printing, micro-stamping, polymer metal plating, metal polymer grip, 3D plastronics devices and packaging.

Following this identification of the Ampere Lab as the GREENOMED living lab, further discussions took place within the working group during a recent Smart Plastics industrial club. This club meeting took place in CTS Company which is specialized in surface treatment deposits, liquid paints, original and innovative decors on a wide range of substrates such as metals and plastics.



Plastipolis, our GREENOMED partner in Lyon, is taking a step forward by organizing a **testing seminar on 29th and 30th of January** in its offices, and has informed about this all participants to the above-mentioned meeting. This seminar is an opportunity for Auvergne-Rhône-Alpes region, for its regional organizations that are either already involved or interested in the Vanguard initiative, and for the

working group members, to meet all GREENOMED community.

This testing seminar is a transnational event aiming to create some further partnership in relation with smart plastics, but also with additional topics such as de- and remanufacturing issues or recycling. In addition to these themes, ageing and normalisation are of major interest in the future development of smart plastics.

PROJECT PROGRESS

During October and November 2018, the activities of GREENOMED were progressed in particular in terms of testing and living labs. Meanwhile the first steps of transferring started too. Dissemination activities were on-going in parallel with diffusing information about the project. In particular:

- The Final candidates of GREENOMED living labs were identified in **France, Croatia, West Slovenia and Marche Region** and the following activities were started to organise regional Living Lab events in each of these regions in the following months.
- Events and activities took place to mobilise regional stakeholders in several regions to create the working groups and identify topics for pilot plants.
- A big effort was dedicated to organise the **“GREENOMED first political meeting”** engaging regional authorities and policy makers from the project partners and also MED regions outside of consortium to take a step toward definition of a trans-regional agenda for collaborative development of pilot plants for green manufacturing.
- Communication at Programme level and **horizontal level** was undertaken by participating in INTERREG MED conference within Ecomondo EXPO and the 3rd transnational event of Green Growth community.



- The process towards organising of **testing seminar** in Jan 2019 in Lyon started.
- The first proposal of **transfer methodology, training materials and tools** were developed.
- **10 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.

WHAT'S HAPPENED IN GREENOMED? (Oct 2018 – Nov 2018)

LOMBARDY INTERCLUSTER MEETING, MILAN, ITALY

On 16th of November 2018, in the framework of intercluster meetings promoted by Lombardy Region, AFIL organized a workshop on Circular Economy with the aim to present to other regional clusters its approach toward the topic and to identify the synergies and inter-cluster opportunities in this context.



In particular, Prof. Marcello Colledani, coordinator of “De-and Remanufacturing” working group, after introducing the vision and

the specific topics addressed, presented the activities carried by the members of the groups to highlighting the projects developed during the past years. Among these projects, GREENOMED has been presented as an opportunity to link and connect the interests and the ideas developed within the regional group with other synergic interregional stakeholders. The meeting continued with an interaction with other regional clusters which presented their actions toward Circular Economy, in other contexts, different from advanced manufacturing, such as Bioeconomy, Aerospace and Energy production. This has been an important occasion to collect inputs and opportunities to be shared with the GREENOMED community and to identify other Lombardy clusters to be involved in project activities in the next phases in particular the transferring activities.

INTERREG MED COMMUNITIES CONFERENCE in ECOMONDO - RIMINI, ITALY

On 5-8 November 2018, Ecomondo “the green technologies expo” was held in Rimini, Italy as the leading Euro-Mediterranean area green and circular economy expo. The expo is an international event that brings together all sectors and different actors of the value chain of the circular economy in a single platform. With a particular focus on Circular Economy, the 2018 Ecomondo expo targeted several stakeholders from industry, research, policy, associations, and clusters together in different areas of bioeconomy, circular manufacturing, energy and waste management.



On 6th of November 2018, within the Ecomondo Expo, the Interreg MED Programme, represented by 6 of its thematic communities (Green Growth, Blue Growth, Renewable Energy, Urban transports, Sustainable Tourism and Biodiversity Protection) organized a session titled “Empowering territories for a Sustainable Mediterranean”.

In the Green Growth thematic community, Ms. Golboo Pourabdollahian from STIIMA - CNR was a panellist in the discussion panel “Circular Bioeconomy opportunities and challenges in the MED area”, discussing about the role of manufacturing in Circular Economy and how the GREENOMED project aims at supporting industry to access the innovative green manufacturing technologies.

Moreover on 7th of November 2018, along with other Green Growth community projects, GREENOMED had the opportunity to be present at the Interreg MED stand in the fair and get in touch with interested visitors.



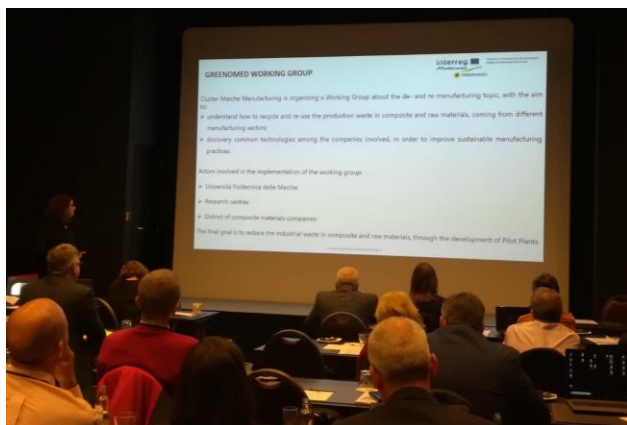
On 8th of November 2018 and during the last day of Ecomondo expo, Cluster Marche Manufacturing took part in the session “Sustainability approaches for clusters in the Mediterranean” organised by Interreg MED. Within the session, ACCM introduced its main activities for boosting sustainability in the region and presented the GREENOMED project as a good practice in order to develop sustainable and eco-friendly practices for SMEs of the manufacturing sector.



In particular, Cluster Marche Manufacturing highlighted the importance to keep on rising awareness around the sustainable and green innovation topic, in order to have a strong involvement from stakeholders.

RAW MATERIALS INDUSTRIAL WORKSHOP IN BRUSSELS, BELGIUM

On 12th of November 2018, Cluster Marche Manufacturing took part to the Raw Materials Industrial Workshop, held in the framework of the Raw Materials Week 2018, based in Brussels.



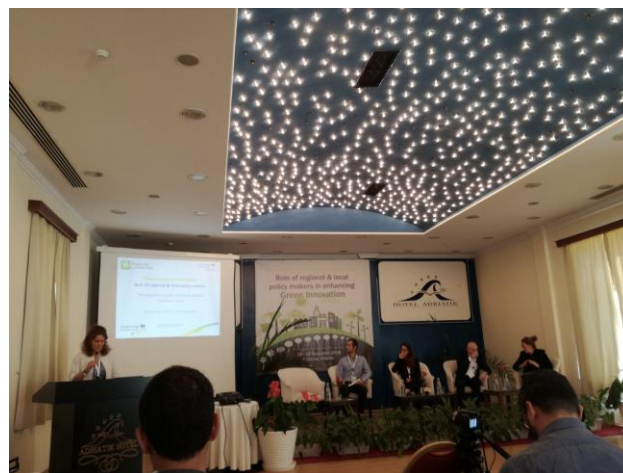
Through a presentation, the Cluster had the opportunity to show to the audience the importance of the Greenomed Project, in order to spread best practices in term of sustainability and eco-friendly productive solutions. In particular, the Cluster underlined the impact of the Working groups to boost the circular economy concept among SMEs and other stakeholders involved in the project.

3RD. MED GREEN GROWTH TRANSNATIONAL EVENT

On 15th and 16th of November 2018, the 3rd MED Green Growth transnational event was held in **Durrës, Albania**.

The event aimed 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 was the first time for the MED Green Growth Community 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.



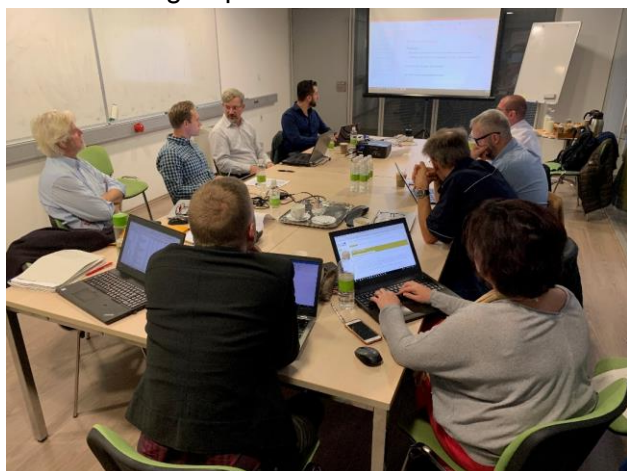
During the event Ms. Valentina Pinna from Lombardy Region the associat partner of GREENOMED made a presentation within the panel of “MED experiences in enhancing green innovation and policies” highlighting the green innovation policies of the region and its experience as a co-coordinator of Vanguard ESM pilot.

GREENOMED WORKING GROUP MEETINGS, LJUBLJANA, SLOVENIA

On 12th and 13th of November 2018, Technology park Ljubljana held Working group meetings. On the first day there were two important sessions: on Plasma Technologies and Photonics.

The session on Plasma Technologies set the ground for the high-impact Action on Plasma for industry and the demonstration of modular cells. The Photonics session set the ground for the high-impact Action on Photonics and their enabling role for integration in industrial activities. The second day a longer session took place on the topic of Industry 4.0, setting the ground for the Industry 4.0 integration Platform for modular production. These intense Working group sessions generated collaboration and cooperation between different representatives

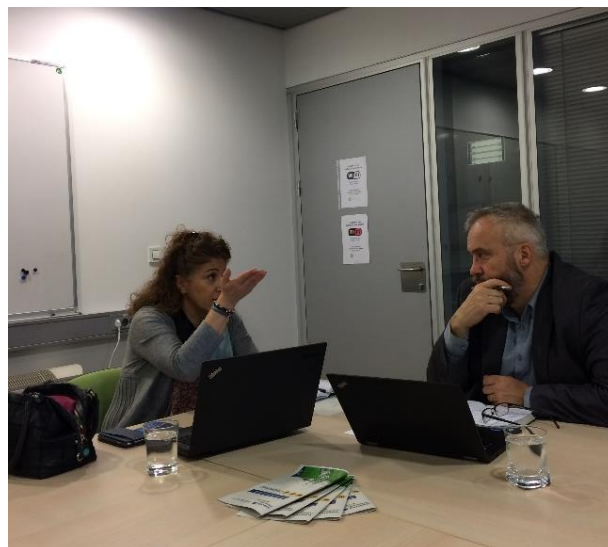
of the Efficient and Sustainable Manufacturing stakeholder group.



GREENOMED AND VANGUARD BI-LATERAL MEETINGS IN LJUBLJANA, SLOVENIA

On 14th and 15th of November 2018, Technology park Ljubljana had the privilege to host Ms. Valentina Pinna, the chair and board member of the Vanguard initiative, and the Head of Sector Research, Innovation and Health of the Lombardy region delegation to the EU.

Valentina Pinna held bilateral meetings with the representatives of the Slovenian Strategic Research and Innovation Partnerships (SRIP) on the topic of activities within the Greenomed project and the Vanguard initiative. The meetings produced some great ideas for the future inclusion and participation of Slovenian stakeholders and strategic partnerships.



INNOVATION BREAKFAST IN M. SOBOTA, SLOVENIA

On 9th of November 2018, Pomurje Technology Park and regional Pomurje Chamber of Commerce (PGZ) organized the 2nd Workshop for regional R&D and companies to inform them on progress of the GREENOMED project and to verify concrete challenges in the regional industry regarding the potential participation in VANGUARD Pilot / demo / use cases. It was also an opportunity to search for providers of solutions and suitable infrastructure (Living Labs community) as a potential for cooperation and event identification of use / demo cases.

Mr. Robert Grah (PGZ) made an introduction in front of PGZ members and representatives of regional support institutions, followed by a lecture on innovation culture by Mr. Uroš Ugovšek, aimed at understanding the trends in EU on objectives of S3 strategies, both at the level of the Union and individual Member States. It followed a presentation of good practice of introducing this innovation culture in TALUM d.d by Ms. Vesna Košir, presenting challenges and solutions used in their case. Next, a presentation of the GREENOMED project took place, where tools and networks of the Vanguard Initiative have been made available, including advantages to the

companies and clusters looking for cooperation, whom showed interest and were invited by PTP to follow GREENOMED in social media and eventually to sign Letters of Intent.



MEETING OF THE ADVANCED MANUFACTURING COMMUNITY IN BARCELONA, SPAIN

On 14th of November 2018, at Cerdanyola, the RIS3CAT Community Indústries del Futur (Future Industries) has performed its First General Assembly, under coordination of our partner Eurecat.

More than 40 representatives of over 30 entities of Catalan Advanced Manufacturing Ecosystem, including LE, SMEs and RTOs, as well as Catalan administration participated in this initial annual collective meeting after a successful grant of 4,7 M€ with ERDF on innovative projects was conceded on April 2018.

Six applied research projects on strategic areas such as: I4.0, Collaborative Robotics, Advanced Processes and Energy Efficiency, presented its initial results and status on Pilot lines, plants and transversal technology demonstrators.

Moreover, the governance of such ambitious R&D Cluster was discussed and seven representatives of the participating entities where selected for the Executive Committee that will promote its transversal activities, among them the international linkage with other regions and clusters.

In this regard, GREENOMED project was presented as an example, as well as other on-going relevant activities on Efficient and Sustainable Manufacturing under Vanguard Initiative and KIC consortia were described too.



WHAT'S NEXT IN GREENOMED? (Dec 2018 – Jan 2019)

GREENOMED FIRST POLITICAL MEETING IN BRUSSELS, BELGIUM

On the 3rd of December 2018, GREENOMED is organizing the "First Greenomed Political Meeting" in **Brussels** with the support of the Lombardy Delegation, in Brussels.

GREENOMED POLITICAL EVENT

3 December 2018
Brussels



LOMBARDY REGION DELEGATION OFFICE
Place du Champ de Mars 2A

<https://greenomed.interreg-med.eu/>



The event targets Regional Authorities and policy makers from MED regions.

Regional authorities of the GREENOMED partnership from Lombardia, Catalonia, Rhone Alpes, Marche Region, Slovenia, Croatia and Region of Central Macedonia, along with interested regional authorities from other MED regions, will take part in the event.

In particular the event aims at:

- Presenting the GREENOMED intermediate results in terms of achieved mobilization of regional stakeholders and identification of priorities based on smart specialization;
- Identifying challenges experienced by the engaged stakeholders and possible support that could be provided by regional authorities;
- Exchanging experiences of successful inter-regional cooperation in order to support the innovation potential of emerging Regions;
- Setting up a possible cooperation agenda among advanced and emerging Regions to increase future cooperation in pilot plants projects;
- Extending the GREENOMED experience to other Regions external to the partnership to create a wider critical mass.

TESTING SEMINAR WITH PLASTIPOLIS IN LYON, FRANCE

On 29th and 30th of January 2018, the GREENOMED Testing seminar will be held in Lyon hosting by Plastipolis. The event aims at presenting the progress made in testing activities of GREENOMED. Moreover, it will also be an opportunity to establish a first step towards transferring of the GREENOMED methodology to external clusters. Members of partners' working groups will participate the meeting and will discuss further opportunities of collaboration in collaborative working sessions with stakeholders from other regions.

GREENOMED LIVING LAB EVENT – VESKI'S LAB IN ZAGREB, CROATIA

In December 2018, the local GREENOMED living lab event will take place in Zagreb. This event is going to be held in Veski's lab, with the objective to present the CodiS monitoring system to the regional stakeholders.



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