

# INNOVATION FORUM4PLASTICS

(2<sup>nd</sup> Edition)

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15.03.2023 - Bruxelles

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# 1 AGENDA



## AGENDA

### 09.00 - 10.45 OPENING SESSION

**09.00** Introduction, Rocco Lagioia, COO ITRB Group

**09.10** Policy

**European Parliament**

**European Commission Strategy**, Laure Baillargeon, Head of Unit I.3 "Green and Circular Economy" from DG Grow, European Commission

**European Commission Directives**, Mattia Pellegrini, Unit B.3 "Circular Economy - From Waste to Resources" from DG Environment, European Commission

**European Research Executive Agency**, Arnoldas Milukas, Head of Unit of REA.B3 - Biodiversity, Circular Economy and Environment. "R&I projects clustering and their role for feedback to policy"

**Plastics Recyclers Europe**, Mathilde Taveau, Regulatory Affairs Manager. "Policy Recommendations from Industry"

**Q&A**

**10.15** Innovation Forum 4Plastics

**Innovation Forum 4Plastics and PCMI follow up**, Arturo Sanabria, Projects Director ITRB Group  
**Interactive Tool Graph linking projects**, Francesca Di Carolo, Senior Engineer at ITRB Group

### 10.45 - 11.00 COFFEE BREAK

### 11.00 - 13.20 R&D

**11.00** Introduction, Irma Mikonsaari, Project Coordinator CREAToR Project (Fraunhofer ICT)

**11.10** **S1 Establishing secondary markets for high-quality plastics**, Moritz Jäeger-Roschko Jr, Scientist at Kühne Logistics University

**11.20** **S2 The Transport Sector**, Mathilde Taveau, Regulatory Affairs Manager at Plastics Recyclers Europe

**REVOLUTION  
DECOAT**

**11.50** **S3 The Building & Construction Sector**, Martin Schlummer, Senior Scientist at Fraunhofer IVV

**CREATOR  
REMADYL  
CIRCULAR FLOORING  
CISUFLO  
PSLOOP  
BLADES2BUILD  
POLYSTYVERT**

**12.40** **S4 Food Packaging**, María Vera Durán, Project Officer at European Recycling Confederation (EuRIC)

**CIMPA**



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# AGENDA

**13.20 - 14.00 LUNCH BREAK**

**14.00 - 15.30 R&D**

**14.00 S4 Food Packaging, María Vera Durán, Project Officer at European Recycling Confederation (EuRIC)**

*CIRCULAR FOODPACK  
SURPASS  
TERMINUS  
BUDDIE-PACK  
SOLREC2*

**14.50 S5 Bioprocesses and Biobased Materials Sector, Cristiano Varrone, Associate Professor, PhD Department of Chemistry and Bio-Science, Aalborg University**

*upPET-T  
UPLIFT  
GLAUKOS  
PRESERVE  
WHITECYCLE  
AGRO2CIRCULAR*

**15.30 - 16.10 Upscaling**

**15.30 S6 The Home Appliance & FF&E (hotel furniture) Case Study, Carolina Mejia Niño, Innovation Project Manager, MONDRAGON Corporation**

*PRIMUS  
CIRCTRHEAD  
GREEN3D  
PLAST2BCleaned  
NONTOX Project*

**16.10 - 17.00 R&D Way Forward**

**16.10 Introduction, Ketí Medarova-Bergstrom, Research Programme Manager at REA**

**Public Funding and Supporting Mechanisms, Stefania Rocca, Project Adviser at REA**

**IF4P Summary and Way forward, Mathilde Taveau, Regulatory Affairs Manager at Plastics Recyclers Europe**

**VC - Private Funding, Ian Banjeree**

**Q&A**

**17.00 COCKTAIL**





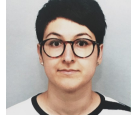



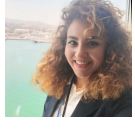
**Demonstrators for Target Clients**

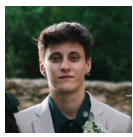


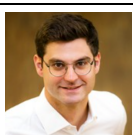
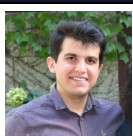



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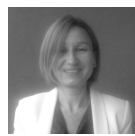
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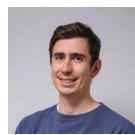
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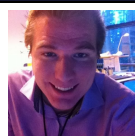
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### 3 PRESENTATIONS AND PHOTOS

You can find all the presentations shown during the Innovation Forum4Plastics as well as the photos here:

[https://gruppointrb-my.sharepoint.com/personal/supplychain\\_gruppointrb\\_onmicrosoft\\_com/\\_layouts/15/onedrive.aspx?id=%2Fpersonal%2Fsupplychain%5Fgruppointrb%5Fonmicrosoft%5Fcom%2FDocuments%2FITRB%20Group%2FITRB%2FITRB%20INNOVATION%20FORUM%2F2023%2FINNOVATION](https://gruppointrb-my.sharepoint.com/personal/supplychain_gruppointrb_onmicrosoft_com/_layouts/15/onedrive.aspx?id=%2Fpersonal%2Fsupplychain%5Fgruppointrb%5Fonmicrosoft%5Fcom%2FDocuments%2FITRB%20Group%2FITRB%2FITRB%20INNOVATION%20FORUM%2F2023%2FINNOVATION)

### 4 SUMMARY AND CONCLUSIONS FROM THE EVENT

In 2018 and the European Commission adopted the European Strategy for Plastics in a Circular Economy taking into account that our society, economy, and environment are all negatively affected by the way plastics are currently designed, produced, used, and discarded. Plastic litter is growing, hurting marine ecosystems, biodiversity, and potentially human health.

The strategy pursues an ambitious approach to plastic packaging recyclability and contains a strong response to microplastics, a significant source of marine pollution.

The Innovation Forum 4 Plastics was held on March 15th, 2023, in Brussels. More than 20 R&I projects funded by the European Union's funding programs such as Horizon 2020 were represented to find solutions to reach the recycling targets and close the loop for plastics.

The Innovation Forum4Plastics was organized with the specific aim of highlighting and furthering the work undertaken by the CREATOR project.

This event is part of a project that have received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement. Please note that this agenda

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## 4.1 SCOPE OF THE EVENT

Plastic waste is generated by various sectors, each with its own specificities.

The Innovation Forum4Plastics clustered projects aimed at developing processes for the following sectors: automotive, electronics and electrical equipment, industrial/commercial packaging, household packaging, and building and construction. The Forum brought together stakeholders and aimed to foster collaboration towards the development of sustainable solutions for plastic waste management across multiple industries. By focusing on the unique needs and challenges of each sector, the Forum aimed to promote innovation and progress towards a more circular economy.

The projects focus on different aspects of plastics circularity and sustainability, including:

- The understanding of the waste composition and its variability.
- The development of processes to sort and recycle plastics.
- The purification of recycled plastics if needed.
- The upgrading of the recycled plastics to reach high-quality applications.
- The acceptance of recycled plastics both from industry and consumer.
- The design for and from recycling.

## 4.2 KEY TAKE AWAY MESSAGES

During the Innovation Forum 4 Plastics, the R&I community discussed the goals and areas of focus for the upcoming years. The following points were highlighted:

- Increasing the amount of recycled materials by improving the feedstock quality and the performance of recyclates.
- Harmonizing rules for collection, end-of-waste, design-for and from-recycling to create a level playing field across the EU.
- Involving actors across the entire value chain to build trust in the quality of recyclates and promote their uptake.
- Providing input to standardization activities for plastics recycling to ensure consistent and safe processes.
- Strongly focusing on the upscale of innovative technologies to promote efficient and sustainable plastic waste management.
- Ensuring a smooth transition towards the implementation of novel processes at recycling facilities to maximize their effectiveness.
- Understanding the risks caused by legacy additives and how they can be removed from the waste stream and recyclates.
- Working on analytical methods and quality control routines to comply with product legislation and ensure safe recyclates are placed on the market.
- Understanding the synergies between different recycling processes (e.g. physical and chemical recycling) to treat the majority of the feedstock.

- Strengthening the link between EU legislation (REACH, POPs, Digital product passport, waste shipment, food contact legislation, Proposal Packaging and Packaging waste Regulation) and the project results.
- Increasing the traceability of plastic waste and recycled content by developing traceability tools.
- Promoting citizen engagement and facilitating their understanding of plastics recycling to encourage participation in sustainable waste management practices.

## **4.3 CLUSTERING ACTIVITIES AND COLLABORATION**

The Innovation Forum4Plastics highlighted the importance of clustering activities to enhance collaboration among EU projects. Some specific activities were identified as particularly promising, including the development of joint policy briefs based on project-generated data, hosting joint webinars or events to share knowledge and findings, collaborating on similar topics such as LCA, proficiency tests, and mapping collection systems and policies, as well as sharing knowledge and best practices on common challenges faced during projects, such as obtaining representative feedstock samples and scaling up new processes. By collaborating and sharing knowledge and resources, the R&I community aims to accelerate progress towards a more sustainable and circular plastic economy.

According to DG GROW, there are seven strategic R&D needs and specific R&D needs related to plastics recycling. These include:

- Chemical and physical recycling
- Polymer-chain recycling stability
- Quality control and consistency of recyclates
- Traceability
- Improved properties of recycled materials
- Better separation of different plastics
- Detection and separation of substances in waste

These needs reflect the challenges facing the plastics recycling industry and the need for innovation to address them.