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BUSINESS-DRIVEN SYSTEMIC SOLUTIONS FOR SUSTAINABLE PLASTIC PACKAGING REUSE SCHEMES IN MASS MARKET APPLICATIONS

COORDINATOR IPC

HORIZON-CL6-2021-CIRCBIO-01 - GA NUMBER : 101059923

Funded by the European Union 



- Coordinator corner -



As BUDDIE-PACK celebrates its first anniversary this September 2023, it is the opportunity to

As you will read below, the University of Sheffield have initiated several social studies related to the consumer engagement with reuse systems. In parallel, the material selection for reusable plastic packaging, led by AIMPLAS, TUS and IPC, went through trials, providing the first results related to the effect of ageing.

Serious Business is making sure our reuse schemes will be economically sustainable, while the CTCPA closely monitor the quality and safety of the packaging. Finally, all the economic, social and environmental impacts of reusable plastic packaging are taken into account, to ensure that the reusable solutions coming out of BUDDIE-PACK are a true upgrade compared to single use packaging.

The consortium met in Athlone, Ireland, in March 2023, for a meeting kindly hosted by TUS, and we are impatiently looking forward to meeting again in person in March 2024, with a consensus regarding the packagings' design and material for our 6 Uses Cases!

Interested to learn about our latest findings then? Please, keep in touch with BUDDIE-PACK to be aware of our progress about the development of Reusable Plastic Packaging solutions!

Marie-Alix Berthet, Coordinator of the BUDDIE-PACK project

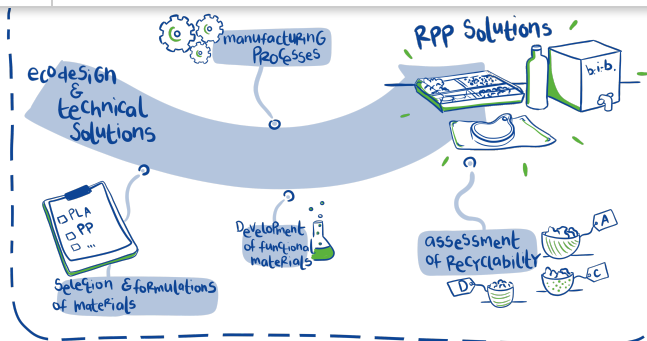
- Project developments -

User engagement with reusable packaging systems

Researchers at the University of Sheffield have been making progress on several projects aimed at providing insight to BUDDIE-PACK partners on consumer engagement with reuse systems as part of Work Package 2.

[Read the full article](#)

Materials and processes for the manufacturing of reusable plastic packaging



Over the last months, the first task of the WP3, related to the mapping and selection of reusable materials has been carried out, where several meetings and research has allowed to the technological leaders of the WP3 (IPC, TUS and AIMPLAS) to select materials, of both petroleum and bio-based polymers, taking into account the requirements of each specific use cases:

- VYTAL, with rigid take-away food trays,
- ASEVI and SMURFIT KAPPA with Rigid refill bottles,
- AUSOLAN with semi-rigid catering trays,
- DAWN MEATS with semi-rigid skin pack for meat distribution
- UZAJE with reusable semi-rigid delicatessen packaging

Read the full article

Reuse has to be profitable - and it will be.

There is a new (old) kid on the packaging block, and his name is Reuse.

Reuse is increasingly being promoted by government, industry and NGOs as the number one solution to shift away from single-use packaging and reduce our dependence on virgin resources. There are numerous LCAs confirming its environmental benefits. There are very valid discussions happening across the world about what the word actually means.

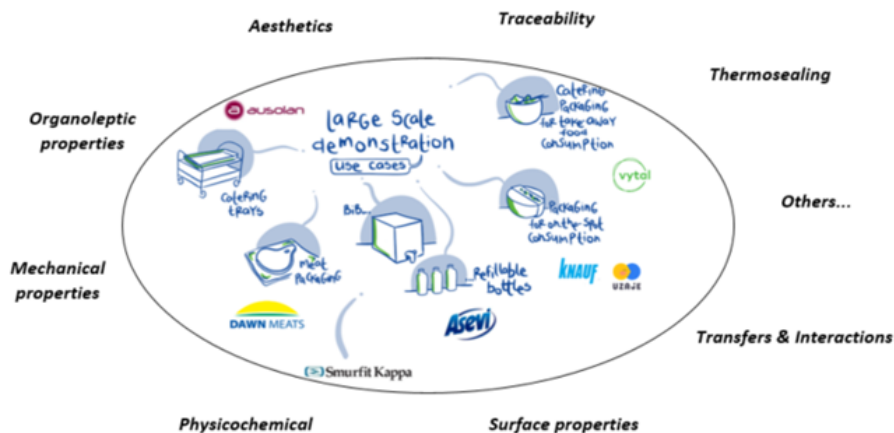


Read the full article

Development of the approach for risk assessment and management of reusable packaging after use

The Work Package 5, Quality and Safety, started in month 6 of the BUDDIE-PACK project and will last for 30 months. The WP5 aims to develop the approach for risk assessment and management of reusable packaging after use. The functional properties and safety (presence of contaminants, chemical migration,

months. The WP5 aims to develop the approach for risk assessment and management of reusable packaging after use. The functional properties and safety (presence of contaminants, chemical migration, microorganisms...) of reusable packaging will be assessed after multiple cycles of reuse/cleaning.



[Read the full article](#)

Circular economy - Economic, social and environmental impact assessment

The work of WP7, from M7 to M18, consists in performing the environmental, financial and social life cycle screening analyses. The aim of these tasks is to identify the hotspots of the reusable packaging along its life cycle for each use-case and provide guidelines to make the reusable packaging more virtuous than the single-use one.

Concerning environmental analyses (LCA), data collection has been performed for each use-case and all methodological remaining questions, e.g. how to model the end-of-life of reusable packaging, have been answered. First screening results are available for the most advanced use-case, Vytal bowls for take-away meals. They present the biggest impact contributors, and break-even point studies, i.e. the evolution of the necessary uses number to make the reusable packaging better than the single-use one. Economic analyses (LCCA) current work is collecting data coming from LCA and transforming them into costs. The result for each use-case will be the comparison of direct costs and indirect costs between the reusable and the single-use packaging. Finally, social analyses (SLCA) are methodologically less advanced than the other two. The screening phase is then used to prepare methodology for the full assessment task. To do so, social hotspots of plastic packaging in general have been identified, thus enabling choosing the right indicators, evaluation scale and data collection document.

12 October 2023 - 09:30 to 16:00 (CET time) - Rennes (France)

Recycling and Reuse: what avenues to move forward?

The packaging sector is awaiting the publication of the new European regulation (PPWR). The opportunity to take stock of plastic recycling sectors, and the deployment of reuse on a national scale.

A day of exchanges and debates to take stock of the situation with experts and key players in the sector.

Marie-Alix Berthet, our coordinator, will present BUDDIE-PACK at this occasion and Eternity Systems will also talk about reusable packaging.

More info and registration

The Packaging and Packaging Waste Directive in the framework of the circular economy for plastic food packaging

16 October 2023 - 15:00 to 16:30 (CET time) - online

Recent regulations and shifting consumer expectations are challenging the current food packaging system and pushing us toward more sustainable business models. The upcoming EU Packaging and Packaging Waste Regulation (PPWR) outlines rigorous requirements for packaging across its entire lifecycle. Its primary focus lies in promoting environmental sustainability, minimizing packaging, enhancing cross-sector reusability, increasing recycling rates and recycled content, eliminating hazardous substances, improving labeling, and enforcing strict regulations for biobased and biodegradable materials. These requirements apply to all packaging available in the EU market, with an enforcement schedule set to begin in 2025 and extend over the next 15 years, featuring progressively ambitious goals.

For stakeholders, it can be complex to keep track of these changes and understand where the market is today. In this context, this webinar aims to deepen the implications of the new PPWR, foster discussions on circular economy for plastic food packaging and detection of microplastics in the soil.

It will also share how the free training materials being developed by the FitNESS 2.0 project (coordinated by Actia) will help current and future packaging practitioners be prepared for the pending shift toward reuse.

The Packaging and Packaging Waste Regulation (PPWR) in the framework of the circular economy for plastic food packaging



Save the date!
October 16, 2023
15:00 - 16:30 (CET)

[REGISTER NOW >](#)



Coordinator ACTIA



More info and registration

Ecomondo - The Green Technology Expo - 7/10 November 2023 - Rimini (Italy)

Ecomondo, the ecological transition ecosystem, is the place for industry, stakeholders, policy makers, opinion leaders and local authorities to meet and talk. It brings together and systemises the key elements that define the development strategies of the European Union's environmental policy.

As every year, Ecomondo proposes an extensive programme of conferences, seminars and events through the involvement of the **Technical Scientific Committee** chaired by Professor **Fabio Fava** with a pool of 80 top scientists, engineers, managers and representatives from **national institutions** (ministries, including the Ministry for the Environment and Energy Security, the regions including Emilia-Romagna), **sector associations and federations** (Utilitalia, Assambiente, Confindustria, Confindustria Cisambiente, Federalimentare, Federchimica, Confagricoltura), **consortia** (CONAI, CIB, CIC), **agencies and institutes** (ISPRA, ENEA, Istituto Superiore di Sanità), to name but a few, but also **European and international institutions** (the European Commission, OECD, EEA, FAO, etc.).

BUDDIE-PACK will be present in a common booth with the Circular Plastics Cluster (Pavillon D2 - stand 200).

More information

PPWR2 International Conference on Recycling, Reuse, and Safety - 9 and 10 November 2023 - Paris-Saclay (France)

place on November 9 and 10, 2023 at the Agro campus of the Université Paris-Saclay. Following the success of the first edition in Dijon in 2022, the 2nd meeting in hybrid mode is organized by the School of Packaging of the University of Michigan (MSU), the National Research Institute for Agriculture, Food and the Environment (INRAE) and the National Metrology and Testing Laboratory (LNE). Key topics for discussion include France's anti-waste law and the new version of the European PPWR law, which mandates new uses of packaging as well as the complex challenges of consumer protection and standard-setting. This international forum will bring together scientists, associations and regulators from Europe, the USA and China.

Optimizing Packaging Systems' Safety for Reuse and Recycling in Compliance with the New Packaging and Packaging Waste Regulation.

9-10 Nov. 2023

22 place de l'agronomie
Université Paris-Saclay, Campus Agro,
91120 Palaiseau, France

<https://www.agroparistech.fr>
Modality: 70 physical attendees and 450 online attendees.

The European Commission's adoption of the new Circular Economy Action Plan (CEAP) in March 2020 marked a significant step in the EU's commitment to environmental sustainability, fostering sustainable growth and job opportunities. This transition towards a circular economy is pivotal to achieving the EU's 2050 climate neutrality target and addressing biodiversity loss. The CEAP outlines a comprehensive range of initiatives covering the complete lifecycle of products and packaging. It includes measures that promote sustainable product design, foster circular economy processes, encourage responsible consumption, and ensure effective waste prevention and resource retention within the EU economy.

A key initiative within this action plan is the [Packaging and Packaging Waste Regulation \(PPWR\)](#), proposed by the European Commission on November 30, 2022. The PPWR aims to replace and repeal the outdated Directive 94/62/EU ([Packaging and Packaging Waste Directive](#)). Following an initial round of commentary that ended on April 24, 2023, a revised version of the regulation is anticipated by the end of this year.

The PPWR outlines rigorous requirements for packaging across its entire lifecycle. Its primary focus lies in promoting environmental sustainability, minimizing packaging, enhancing cross-sector reusability, increasing recycling rates and recycled content, eliminating

2nd Franco-American Symposium
— Optimizing Packaging Systems' Safety for Reuse and Recycling —
— In Compliance with the New Packaging and Packaging Waste Regulation —
November 9-10, 2023
Université Paris-Saclay
Campus Agro, Palaiseau, France



hazardous substances, improving labeling, and enforcing strict regulations for biobased and biodegradable materials. These requirements apply to all packaging available in the EU market, with an enforcement schedule set to begin in 2025 and extend over the next 15 years, featuring progressively ambitious goals.

In anticipation of the forthcoming regulation, several member states, including France, have proactively established additional regulations to curb improper waste disposal and reduce excessive waste. France's anti-waste law for a circular economy, for instance, mandates a reduction in single-use plastic consumption and advocates for reuse and recycling. Consequently, the entire packaging supply chain must prioritize reuse, maximize packaging material recovery, and increase recycled content.

In light of these developments, we invite you to our 2nd Symposium on the Safety of Packaging Materials Supply Chain and the Growing Demand for Reuse and Recycling. We are gathering esteemed global experts from the European Commission's Joint Research Centre, the United States Food and Drug Administration, and academia from the US and EU. The first meeting, titled "[Implication of the EU PPWR on creating sustainable food packaging systems](#)," was held in Dijon, Paris.

This 2nd symposium aims to delve deeper into the implications of the new PPWR and foster discussions on safety within the packaging material supply chain. We invite you to pre-register for this workshop via the provided link and choose your preferred mode of attendance, online or in-person.

With the support of the Embassy of the United States of America, France, and the Université of Paris-Saclay



More info and registration

The future of packaging is being invented at Prod&Pack!

Process, Packaging & Handling. November 21-22-23, 2023 at Eurexpo Lyon, a trade show dedicated to manufacturers from all key sectors: agri-food, chemicals, cosmetics, pharmaceuticals, textiles, metallurgy, plastics. Come and discover the rich offer of 600 exhibitors, including 300 new ones, divided into 3 sectors: Packaging: How to make the right material choices? Can we effectively improve recyclability and sobriety? How do you prepare new reuse models? What better solutions to improve the productivity of its packaging lines? Find all the answers on Prod&Pack, on

IPC and CTCPA will be present at this fair and present BUDDIE-PACK on their booths. You can visit them to get more information about the project!



More information

Online training "Considering the environmental impacts of food packaging: Science-policy updates, tools, and challenges" November 27-28 - Organised within the FitNESS 2.0 project

The objectives of this free training session will be to :

1. Introduce/share information about the FitNESS platform
2. Explain/train on new projects Regulations (Food Contact Material, Packaging and Packaging Waste Regulation, etc), environmental health and current challenges of food packaging
3. Prepare/gather information needed for refining the environmental modules
4. Test some of the assessment tools of the platform

The FitNESS 2.0 project (coordinated by ACTIA-LNE, 2021-2024) aims to develop new content on the FitNESS platform, particularly in relation to the circular economy and waste reduction.

More info and registration



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