



Safe-, sUstainable- and R recyclable-by design Polymeric systems

A guidance towardS next generation of plasticS



MESSAGE FROM THE COORDINATOR

Dear Readers,

Welcome to the second issue of the SURPASS newsletter.

Plastic waste outlives us as it takes centuries to break down. The hazard of endocrine disruption by leached substances, fast growing and pollution of land, air, and water as well as greenhouse gas emissions are only some of the adverse effects of

plastic waste on public and environmental health.

Still, 70% of plastic waste collected in Europe is landfilled or incinerated. The overall objective of SURPASS project is to lead by example the transition towards more Safe, Sustainable and Recyclable by Design (SSRbD) polymeric materials



Issue 2

June 2024



[Website](#)



[Surpass project](#)

Project Coordinator

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Commissariat à l'Énergie Atomique et aux Énergies Alternatives (CEA)



Budget

€ 4.98 Million



Consortium

13 Partners
5 Countries



Duration

42 Months
06/2022 - 11/2025



The project has received funding from the European Union's Horizon 2021 research and innovation program, under grant agreement no 101057901.

KEY UPDATES FROM 2024

5th Consortium Meeting

June 2024

The SURPASS project successfully completed its 5th Consortium Meeting at BASF in Ludwigshafen and ICT Fraunhofer in Karlsruhe, marking two years of significant progress. Key highlights included detailed group discussions, an interactive session on exploitable results, and the beginning of footage for a promotional video showcasing the project's achievements and innovative spirit.

Periodic Review

February 2024

The SURPASS project celebrated its first periodic review on February 9, 2024, highlighting significant progress made since the beginning of the project. The review emphasized successful work packages, tangible outcomes, and optimistic projections for high-impact results within the next 24 months, underscoring the project's commitment to innovation and sustainability.

Waste Collection

March 2024

SURPASS successfully held its first public event on Global Recycling Day, March 18th, featuring a waste collection drive with over 40 volunteers. The event, which collected over 160 kilograms of waste and drew media attention, highlighted SURPASS's commitment to environmental responsibility and community engagement, culminating in a networking session and project presentation.



Attended Events

Be sure to attend all upcoming events and please find 2024 events where SURPASS was presented.

June 2024 -
Online
Sisters workshop

May 2024 -
Seville, Spain
SETAC Conference

March 2024 -
Brussels, Belgium
European Food
Contact Plastics
Conference

March 2024 -
Brussels, Belgium
Innovation Forum 4
Plastics

Workshop collection for Global Recycling Day March 2024



SURPASS held its first workshop collection last March in Brussels, the heart of the European Union!

Click to watch the SURPASS team and our volunteers in action, cleaning up Brussels and raising recycling awareness!



WP4: DEVELOPMENT AND USE OF SSRBD ASSESSMENT TOOLS, METHODS AND GUIDANCE

WP4 is coordinated by CEA and RIVM. WP4 aims at operationalizing sets of criteria, adapting existing methodologies, developing new SSbD assessment methods, and building user-friendly scoring strategies to guide material makers and designers towards Safe Sustainable and Recyclable by Design. To address the four SSbD pillars for sustainable innovation as defined by the JRC

framework (environmental, social, economic, and safety), WP4 performs hazard, exposure, LCA, and LCC assessments for the three case studies of SURPASS, extending the vision to the recycling processes. The figure below illustrates the integrated approach employed in the project to assess the sustainability of the materials developed during the project life.



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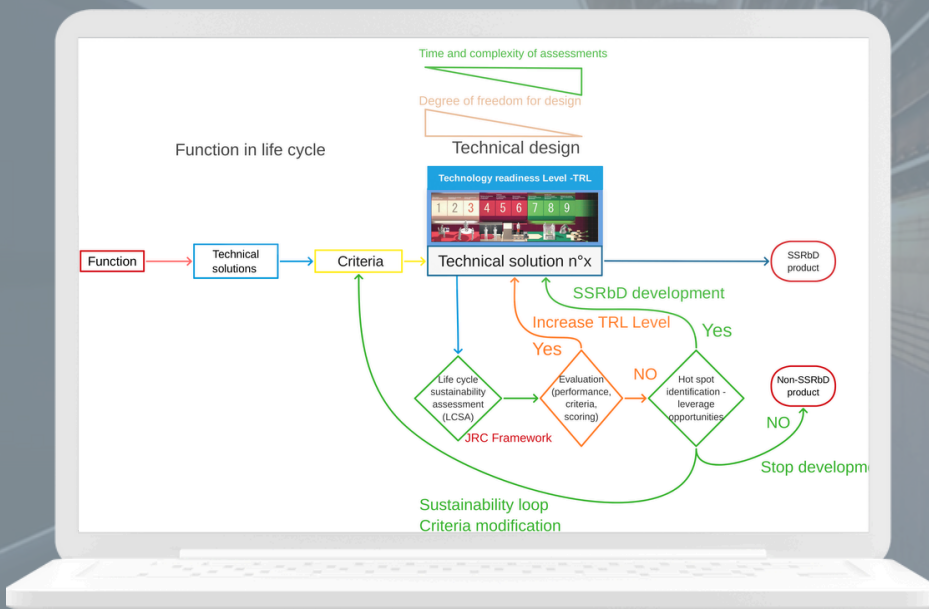
June 2024 - Online
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SETAC Conference

March 2024 - Brussels, Belgium
European Food Contact Plastics Conference

March 2024 - Brussels, Belgium
Innovation Forum 4 Plastics

Workshop collection for Global Recycling Day March 2024



The SURPASS Consortium

The consortium comprises 13 partners from 5 countries (BE,DE,FR,HU,NL,SP). It consists of a mixture of academic and industrial players, from associations to Small and Middle Enterprises.



WP5: DEVELOPMENT AND VALIDATION OF THE DIGITAL INFRASTRUCTURE, INCLUDING SSRBDA GUIDANCE

The SURPASS project is set to revolutionise the design and assessment of Safe-, Sustainable-, and Recyclable-by-Design (SSRbD) polymeric materials through its innovative digital infrastructure.

Targeted at SMEs, experts, and educators, this infrastructure aims to provide comprehensive, user-friendly guidance on creating high-performance recyclable polymers. By incorporating criteria, metrics, scoring strategies, and decision support tools, the platform will help users balance performance, safety, environmental impact, and cost. It offers SSRbD assessment guidance by evaluating

environmental impacts, safety, toxicity, and economic viability using Life Cycle Assessment methodologies. Featuring an accessible, multilingual web interface, the platform delivers SSRbD guidelines, assessment tools, and regulatory information tailored to various expertise levels. Additionally, it facilitates continuous stakeholder engagement through surveys and workshops and integrates with existing platforms to enhance information flow and foster synergies, empowering designers to innovate sustainable materials and drive industry progress.



Explore over **7 public deliverables** across **3 work packages** now live on our website!

[CLICK HERE](#)



Thank you for Reading!
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**STAY TUNED FOR
WHAT'S COMING**



Upcoming Events

Join us at these must-attend events in the coming months!

Don't miss out on the opportunity to connect, collaborate, and revolutionize the world of plastics. See you there!

October 22-25 2024 -
Thessaloniki, Greece
[SSbD Bootcamp](#)

November 10-15
2024 -
Monte Verità,
Switzerland
[SSbD24 Conference](#)

Workshop
collection for
Global
Recycling Day
March 2024

