



**interzero**<sup>®</sup>  
zero waste solutions

# We manage **plastics** in a **closed loop**

Expertise in plastics recycling



“Our vision is  
a **world without waste**.  
A world worth living in  
today and for the  
generation of tomorrow.”

Dr Axel Schweitzer  
Chairman and  
Shareholder

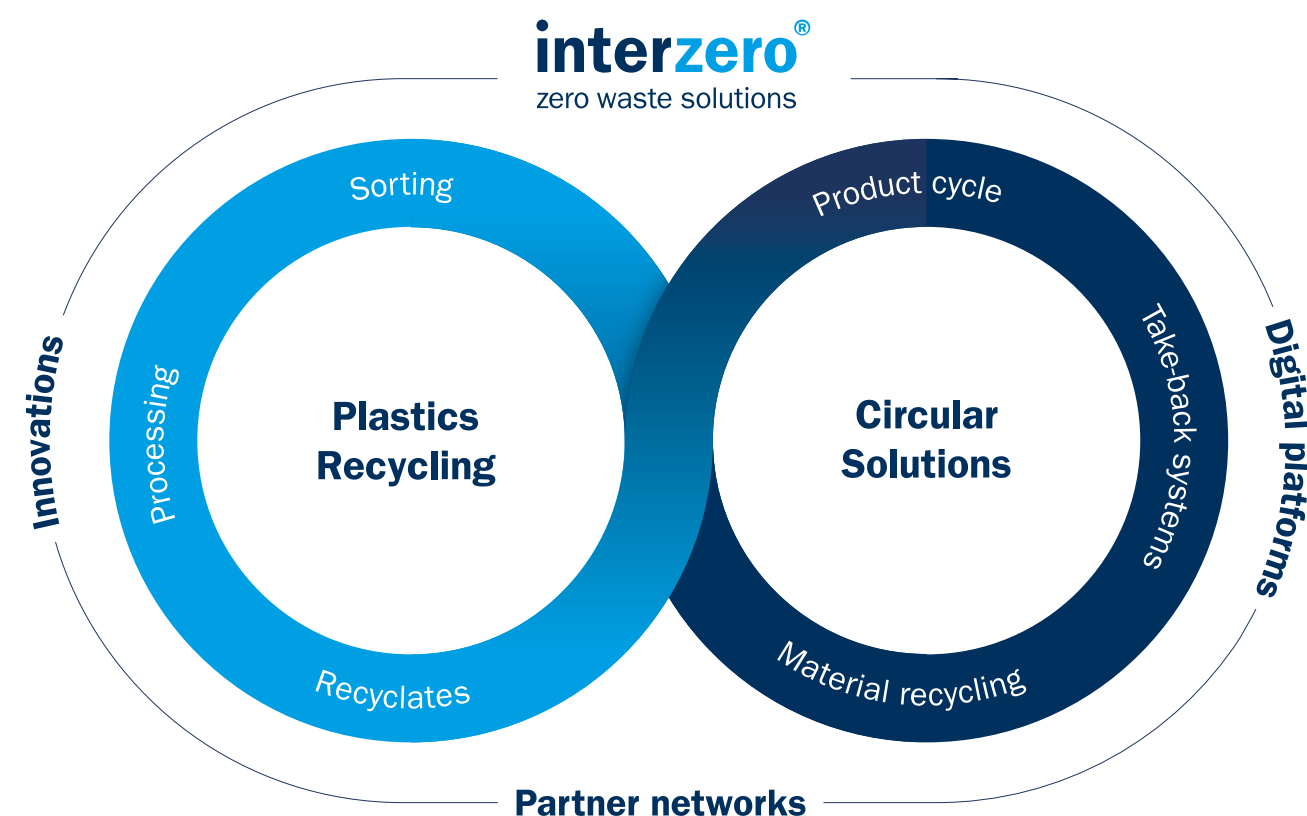
# Together for a world without waste

Closing loops, creating added value: As one of the leading service providers for closed-loop solutions, we support our customers in preventing waste, securing raw materials and improving their sustainability balance. Our name highlights the main agenda behind our company. We are internationally active with our zero waste solutions, as summarised by our name, Interzero.

Our company has more than 30 years of experience in the development and implementation of needs-based waste management and recycling solutions. Following our foundation in 1991, we initially focused on pioneering work for the recycling of

packaging waste. Today, we are innovation leaders in holistic plastics recycling, and set new standards with sustainable closed-loop solutions. Our vision is a world without waste – with our “zero waste solutions” concept, we contribute actively to the protection of our climate and resources.

Benefit from our longstanding experience, our comprehensive expertise in plastics recycling, and our new ideas for a circular, future-proof economy. We are your strong partner for all aspects of plastic recycling: from licensing and sorting, processing and trading through to the development and production of high-grade recyclates.





## Interzero – Certifications

# Quality with responsibility – certified sustainable!

Our numerous certifications reflects our goal to provide our customers with top quality products and services while minimising the impact of our activities on the environment.

### Extract from our certifications:

- ISO 9001: We relentlessly strive for quality and customer satisfaction and adhere to the strict quality standards in all aspects of our business to ensure that you always receive the best possible products and services.
- ISO 50001: We continuously optimise our energy performance and reduce our environmental footprint to help protect the environment.
- ISO 14001: We are committed to continuously improving our contribution to the environment and reducing the environmental impact of our activities across all business units.
- EN/ISO 17025: This certification demonstrates our competence and precision in testing and calibrating laboratories. You can rely on the credibility and accuracy of our findings to meet all your requirements.
- REACH: We guarantee that our products adhere to the strictest standards when it comes to protecting human health and the environment. We actively work on reducing the number of hazardous chemicals used and promise that our products are safe and environmentally friendly.
- RecyClass: Through independent verification, we confirm our activities as a plastics recycler and provide the basis for demonstrating the use of recyclates in products. In doing so, we highlight our commitment to promoting a verifiable circular economy for plastics.
- Integrity and Climate Responsibility: We are committed to ensuring the integrity of the supply chain for sustainable products. Through consistent traceability, we lay the foundation for credible, verifiable, and independently validated statements regarding the sustainability of our products and processes. In addition to complying with all legal requirements, we participate in multiple external supplier assessments. Furthermore, our sites are periodically externally audited to guarantee seamless and transparent traceability of recycled plastics. As a principled actor in the circular economy, we also take the climate impact of our operations into careful consideration.
- Efb certificate: As a certified disposal company, we uphold the highest standards when it comes to waste management and disposal. We use state-of-the-art technologies and proven processes to ensure that all waste is collected, transported, treated and disposed of in line with local regulations.

You can find an overview of our certifications here:



## Interzero – Dual System



# Taking the circular economy to the next level!

Interzero runs a leading dual system that goes far beyond conventional licensing, sorting, and recycling methods for used packaging. Our approach is based on shaping the raw material cycles of the future and giving our customers supply and future security.

### Packaging licensing

Licensing packaging is the first step in closing the packaging loop, as it establishes binding oversight and organisation of disposal and recycling processes. As experts in packaging licensing, we are active not only in Germany and Europe, but also worldwide wherever new legal frameworks require action. We handle the entire licensing management on your behalf to ensure you remain fully compliant at all times.

For companies required to obtain licences, compliance is often just the first step. Sustainable packaging optimisation offers numerous opportunities – not only for environmental and legal compliance, but also for innovation and brand image. Interzero supports you with a comprehensive portfolio of solutions.

### Packaging optimisation

We also help make your packaging as sustainable as possible with our recognised testing procedure “Made for Recycling” and offer advice on eco-friendly design.

Our services can either be used individually or as an integral part of a comprehensive overall package as part of a strategic partnership.

### Stronger together

As a partner of Interzero, you benefit from access to high-grade recycling raw materials based on your licensed packaging quantities. This gives you resource security and adds your packaging to a traceable cycle for verifiable climate and resource protection.

Companies that decide to become strategic partners are pioneers in the field. Together with us, they work towards sustainability and next-level recycling, fulfilling and going above and beyond the requirements of the national Packaging Act.

Learn more about the dual system:





# Innovative plastics recycling – 360 degrees

Interzero provides comprehensive circular solutions in plastics recycling. Our business units bring together **highly specialised services** and expertise. Thanks to our know-how, we are a trusted partner for efficient and sustainable **closed loops for plastics**.

From intelligent collection systems and high-tech sorting plants to the production and marketing of quality-tested regranulates and recomounds: As an “innovation leader” in plastics recycling, we cover all processes, technologies and consulting services.

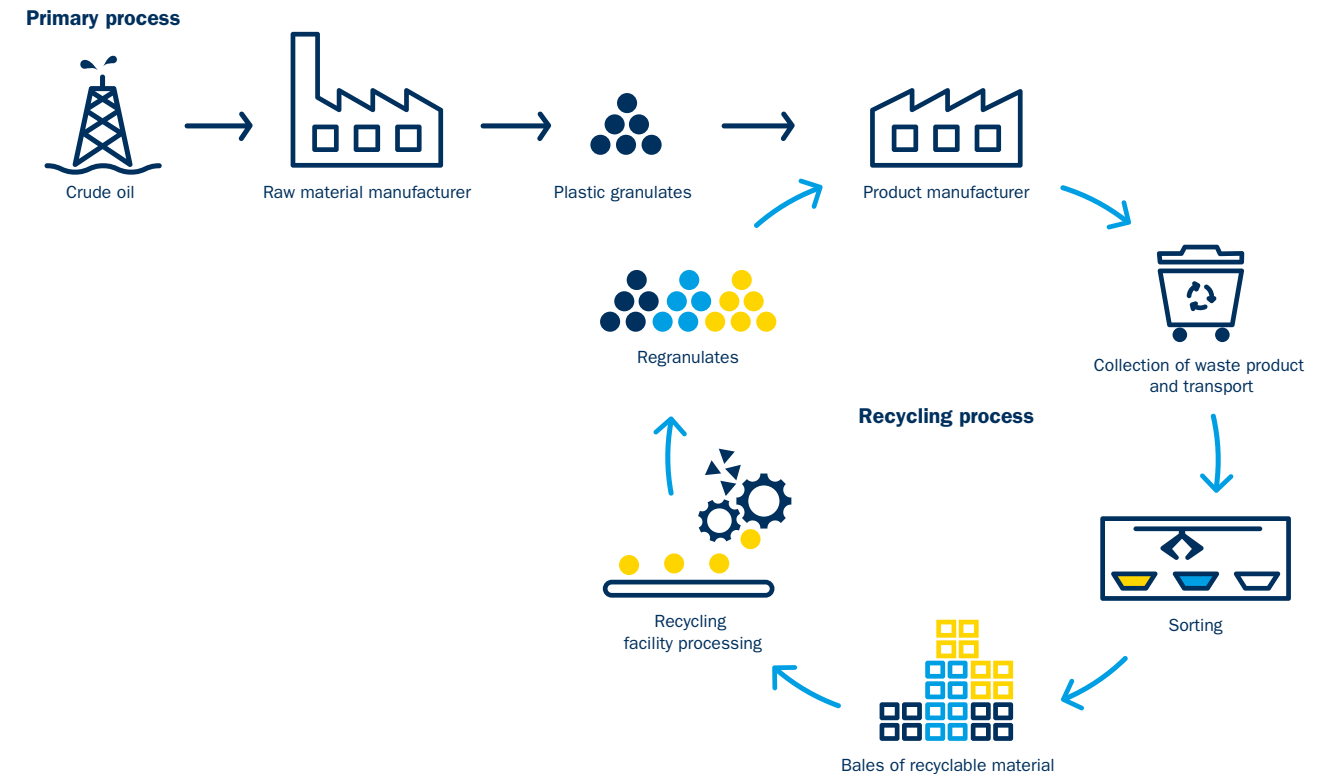
#### Our range of services encompasses:

- **The collection of high volumes:** Waste plastics from commerce and local authority waste streams are processed by us.

- **Development and operation of sorting and production systems:** Our sorting capacities and technologies make us one of the market leaders in Germany.
- **Established processing technologies:** With our own innovative processes, we make customised recyclates and recomounds available for a variety of applications in industry.
- **Marketing of plastic fractions and recyclates:** Our customers benefit from a wide-ranging national and international trading network.
- **Competence Centre for recycled plastics:** Innovations that set us apart from the competition are developed at our competence centre in Lenart, Slovenia. Customers have direct access to our centre’s expertise and comprehensive technical facilities for material analysis as well as the development of innovative, customised plastic recyclates. Our laboratory is EN/ISO 17025 certified, making it the only recognised research facility in the EU specialising in the development and analysis of recycled plastics.



Sorting – Processing – Partnership



# High-tech on the sorting lines

The first step in our value chain is the **sorting of waste streams**. We invest in the latest sorting technologies on a continuous basis, expand our capacity, and ensure a stable output quality. In this way, we enable the dual systems in Germany to achieve their recycling rates – and **generate raw materials** for the world of industry **according to demand**.



On the basis of established contracts, Interzero has access to materials such as PP, HDPE, LDPE, PET and PS from the post-consumer sector.

We are the leading supplier of sorting services for lightweight packaging (LWP) and mixed recyclables throughout Europe. Adapted to the requirements of our customers, we process volumes from the collections of the dual systems in Germany and materials from neighbouring European countries. With a total capacity of more than 800,000 tonnes, we are the largest sorting company for LWP waste in Europe.

## Intelligent automation

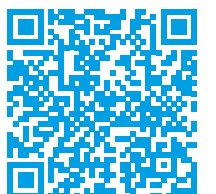
At our five sorting plants in Germany, we use state-of-the-art digital technologies and drive the automation of processes forward. One of the technologies we work with at our sorting plants is near-infrared spectroscopy (NIR): NIR cameras scan between the conveyor belts and distinguish between the different plastic fractions in a split second. This creates groups of substances with a homogeneity of at least 90 per cent.

In addition to this, the sorting of LWP already benefits from the use of artificial intelligence and sensor technology. Interzero tests sorting robots, for instance, and uses a deep-learning system which clears disruptive silicone cartridges from the stream of plastics with a high degree of precision.

## Access to a wide range of plastics

The goal of our work is to secure the valuable recycled raw materials as efficiently as possible, to further improve the quality, and to support our customers with their fulfilment of the increasingly strict legal requirements. On the basis of established contracts, Interzero has access to materials such as PP, HDPE, LDPE, PET and PS from the post-consumer sector. Our international activities also help to ensure that the flow of waste plastics does not stop – and that we can ensure the sustainable closed-loop circulation of different grades.

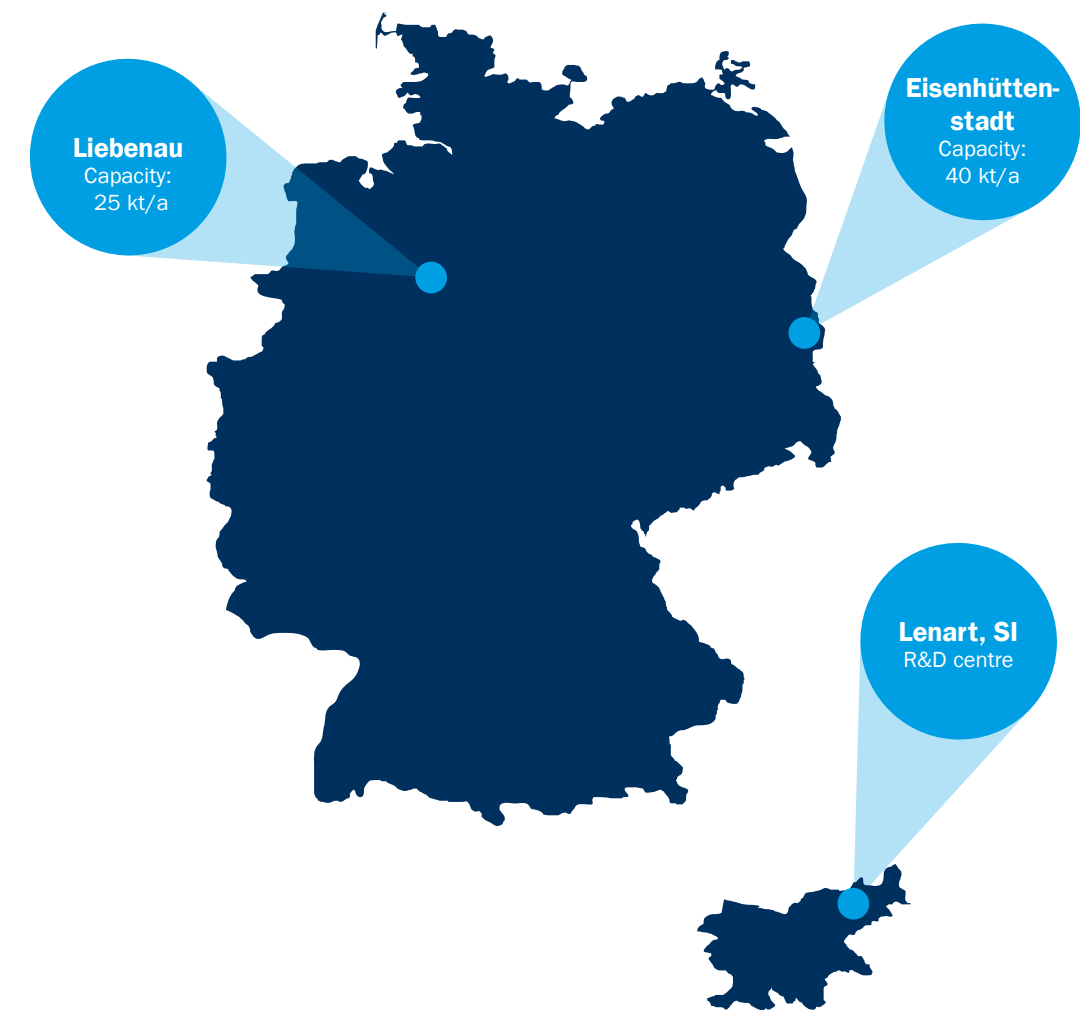
More about sorting:





# Processing in line with your requirements

With our own plants and innovative preparation processes, we close the loop for used plastics. From the efficiently sorted materials we create **marketable recyclates**, which are already replacing primary plastics made from crude oil in many areas – and thereby contribute to climate and resource protection.



We are able to provide regranulates and re-compounds in specific grades for a wide range of applications.

## From traditional applications to food-grade materials – Interzero covers the entire scope of recycling.

At our processing plant in Eisenhüttenstadt, we use our award-winning process to produce recycled plastics in their unmodified form as Recythen, and tailored as Procyclen. By melting and compacting the introduced plastics, high-grade recycled plastics are produced, which can be adapted individually customised to the requirements of industry. While the post-consumer-household PC-H plastic grades HDPE and PP are processed in Eisenhüttenstadt, the plant in Liebenau specialises in LDPE and PP post-industrial (PI) grades, as well as rPET in food-grade quality. In addition, we operate external production capacities for the manufacture of rEPS in Aschersleben. This enables us to provide regranulates and re-compounds in specific grades for a wide range of applications.

## Wide range of technical applications and specifications

Our recyclates are used in a wide range of industries. Whether it is non-food packaging, construction applications, household products or the supply chain – Interzero is a reliable partner when it comes to providing sustainable raw materials for plastics-based products. With the new EFSA certified PET recycling plant in Liebenau, Interzero has expanded its portfolio in the food-grade sector to close additional loops in-house. Thanks to the many years of experience and expertise of our employees at the various processing locations, we offer formulations with a wide range of specifications to meet the needs of our partners.

New formulations for our recyclates or technical innovations are developed in the Competence Centre for recycled plastics.

Learn more about processing



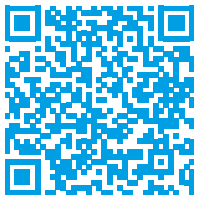


# Reliable supplier of recycling raw materials

Optimally networked in the retail trade of raw materials and recyclates: We have many years of experience in the purchasing and distributing **all types of plastic waste streams** as well as recyclate qualities for the plastics value chain. This means we can offer our customers genuine added value in resource efficiency and procurement – while supporting the industry in becoming less dependent on fossil resources.



Learn more about recyclable material trading:



Whether it is lightweight packaging, styrene, rigid plastics or other types of plastic waste: You can be certain to rely on the IPR retail specialists and their global distribution network. They secure the necessary volumes from the waste streams for our production locations as well as the production of the recyclates. In this way, they create the basis for supplying our customers with high-grade and needs-based recycled materials.

## Availability in consistent quality

Our aspiration: We supply the necessary materials as required and “in time”. We ensure the availability of our products in consistent qualities through our long-term relationships with leading stakeholders in the food retail trade and the recycling industry.

As reliable partners in the value chain for plastics, we think beyond the boundaries of conventional waste management – and use our know-how to close plastic loops more effectively for the benefit of both businesses and the environment.



# The full range – for your requirements

Whether it is bale goods, palletised plastic types from the post-consumer sector, or regranulate and recompounds: We offer a **wide product range of recycled plastics** in a variety of different fractions and specifications.



In our products, we generally distinguish between two quality types: Post-Industrial (PI) and Post-Consumer-Household (PC-H).The PIR category encompasses all materials from industrial sources, primarily production waste, while PCR-H consists of waste streams from private households (yellow bag/yellow bin).

Whether you require bales or granulates, processed waste from private households or from industrial streams: Interzero is a competent partner to the processing industry – and develops its product range according to the market requirements on a continuous basis. We regularly review which adjustments to our products may be particularly relevant for our customers and various markets, enabling us to identify strategic trends and respond to them effectively.

Whether sourced from our own sorting and recycling facilities or through our extensive network, we provide the right product solution for almost every application in the plastics value chain – regardless of whether the relevant regulations are already in force or yet to come into effect.

We have put a simplified overview of our product range together for you here.

Detailed information is available on our website.




Polymer group	Material	Origin*	Packaging type
LDPE	LDPE film (98/02 – 50/50)	PC-C	In bales
	LDPE film (DKR 310-0)	PC-H	In bales
	LDPE regranulate (different specifications)	PI	Palletised
PP	PP (different varieties)	PC-C	In bales
	PP film reel	PI	Palletised
	PP regranulate (different specifications)	PC-C	Palletised
	recythen®	PC-H	Palletised
	procyclen®	PC-H	Palletised
	PP film	PC-H	In bales
	PP rigid	PC-H	In bales
	PP black	PC-H	In bales
HDPE	HDPE hollow containers and drums	PC-C & PC-H	In bales
	HDPE rigid	PC-C	In bales
	HDPE regranulate (different specications)	PI	Palletised
	recythen®	PC-H	Palletised
EPS	PS (different specifications)	PC-C	Palletised
	PS regranulate	PI + PC-C	Palletised
	PS planters	PC-C	In bales
	PS bowls clean	PC-C	In bales
	PS	PC-H	In bales
PET	PET strapping	PC-C	In bales
	PET bottles	PC-H	In bales
	PET flakes	PC-H	Palletised
	rPET (PET regranulate- different specifications)	PC-H	Palletised
	Mixed PET 80/20	PC-H	In bales
	PET blister	PC-H	In bales
Other	Tetra, PPK, tinplate	PC-H	In bales

\*PC-C = PostConsumer-Commercial / PC-H: PostConsumer-Household / PI: PostIndustrial

You can find an overview of our products here:







Would you like to learn more about  
solutions and products from Interzero  
in the field of plastics recycling?

Talk to us.

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