Cartons, a packaging solution that supports resilient food systems

1 Boosting food safety, reducing food waste

Up to **12** months shelf life

Extend shelf life: By providing a barrier against moisture, oxygen and light, aseptic packaging helps preserve the quality and nutritional value of food for up to 12 months with no need for preservatives or a cold chain distribution.

Prevent contamination: Aseptic packaging protects perishable foods against light, oxygen, moisture and microbial contamination.

Food packaging has a core purpose – to protect the food inside, ensuring its safety, quality and taste.

Packaging is crucial for strengthening food security within modern food systems. It does so by addressing food safety, accessibility, affordability and availability.

2 Increasing accessibility

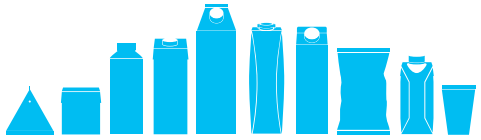
Transportation: Packaging facilitates the safe and efficient transport of food from producers to consumers, preventing damage during handling and transit.

Storage: Packaging ensures that food remains in an optimal condition, both in store and at home.

3 Enhancing affordability

Waste reduction: By minimising spoilage and waste, high-performance packaging helps businesses and consumers save money.

Eliminating avoidable food waste would save the average UK family more than £700 ($870) each year, and the average US family about $1,800 annually[1].



Right-sizing: A wide range of packaging formats and sizes enables food producers and consumers to select the package that best matches their needs. This helps reduce waste and deliver safe, nutritious food that is resource-efficient to produce and transport, resulting in lower costs for consumers.

4 Expanding availability

Global trade: Aseptic packaging is essential for international trade, allowing food to be transported long distances while maintaining quality and safety. This global movement of food broadens and improves consumers' dietary choices.

Strengthening supply chain: High-performance packaging helps streamline and strengthen the supply chain, ensuring a consistent and reliable flow of food from producers to consumers, even during disruptions.

Food aid: In times of crisis, aseptic packaging enables food aid to be delivered to affected areas safely and efficiently, addressing food security in vulnerable populations.

Climate impact of food packaging

Innovating packaging, by increasing the use of responsibly sourced, renewable materials, helps to reduce its carbon footprint[2].

High-quality packaging solutions help decrease spoilage and food waste during transit and storage, preventing emissions due to food waste[1].

Packaging accounts for around 3% of greenhouse gas (GHG) emissions, compared to 8-10% from food waste[1]. High performance packaging can protect food for longer, thereby reducing spoilage and the associated GHG emissions resulting from wasted food. By ensuring that food is consumed rather than discarded, packaging innovations can contribute to more secure, resilient and sustainable food systems[3].

About Tetra Pak

As pioneers in aseptic technology and packaging, we have long helped to ensure food safety and quality throughout the entire supply chain. Our aseptic packaging protects food without the need for preservatives or energy-intensive refrigeration, making safe food available to more of the world's growing population, even in remote areas.

We are continually improving the circularity of our packages through increased use of responsibly sourced, renewable and recycled materials. And we are investing and collaborating to increase recycling capacity and strengthen the recycling infrastructure for cartons.

Learn more

~€100 mil

Our investment per year over the next 5-10 years to design packaging with a simplified material structure and increased paper content, to make it even more appealing to recyclers.

27%

Global food and beverage carton package collection rate in 2025 was estimated to be 27% – with approximately 1.3 million tonnes of cartons collected and sent for recycling[4].

>200

The number of facilities that recycle food and beverage cartons globally.

~€40 mil

Our annual investment in beverage carton collection and recycling.

1. The Global Benefits of Reducing Food Waste — and How to Do It | World Resources Institute (wri.org) **2.** www.tetrapak.com/solutions/packaging/packaging-material/renewable-materials **3.** Definition: A food system is a system that embraces all the elements (environment, people, inputs, processes, infrastructure, institutions, markets and trade) and activities that relate to the production, processing, distribution and marketing, preparation and consumption of food and the outputs of these activities, including socio-economic and environmental outcomes. Source: High Level Task Force on Global Food and Nutrition Security (HLTF) (un.org) **4.** The total volume of beverage cartons placed by the entire industry on the market is estimated from externally available industry data and research. The quantity of used beverage cartons collected for recycling is based on the latest official data published or supplied by reliable sources such as governmental bodies, registered recycling organizations, national industry associations, or non-governmental organizations, etc. In cases where such official data is unavailable, the figure is based on our best estimate.