



## Biodiversity and ecosystemic services

Ensuring the sustainable origin of the commodities based on a model that allows keeping a balance between sustainability and productivity while maintaining the competitiveness of the sourcing processes.



**Management approach**

[GRI 3-3]

**Progress achieved in 2021**

[GRI 3-3]

Optimizing water consumption.

- Formulation of work plans for 16 commodities, including the measurement of the carbon footprint and the identification and adoption of leading regenerative practices.

Formulating the work plans and the actions to avoid and minimize the impact on biodiversity.

- Formulation of work plans for the 16 most relevant commodities.
- 35 biodiversity initiatives.

Implementing initiatives to promote the sustainable use and the regeneration of biodiversity.

- Six product categories of the Kibo brand and Naturela's portfolio focused on the use of ancient and non-conventional ingredients.
- 31,9% progress regarding the goal of planting one million trees, equivalent to 319.000 trees planted and the preservation of the native forest in Colombia.
- 4.279,5 hectares of tropical dry forest were intervened through the 'Cacao Cesar' project in Colombia.

Developing partnerships focused on preserving biodiversity in the value chain.

- 69 sustainable actions identified for the preservation of biodiversity in the dairy production chain as of the closing of the project developed jointly with the World Wildlife Fund (WWF).
- Launch of the special edition of the Matiz coffee brand called 'Oso de Anteojos' (Andean bear), which is produced by families from the Colombian state of Valle del Cauca who allocated part of their land to the conservation of this species.



progress achieved regarding the goal of planting one million trees, equivalent to 319.000 trees planted that contribute to the preservation of the native forest in Colombia.



## Risks and opportunities [GRI 3-3]

Biodiversity, understood as the variability of all kinds of living organisms, plays a significantly important role in the functioning of the ecosystems and in the services they provide to the food industry, such as the supply of raw materials, the regulation of nutrients and other services for the agricultural and livestock production.

Since the green revolution, which took place between 1960 and 1980, the use of agrochemicals and the focus on monoculture have increased the availability of food; however, these practices have also caused an imbalance in the natural cycles of the ecosystems, significantly affecting them in an adverse way (the pollinator population, for example), which constitutes a growing risk for agricultural productivity over the coming decades.

The concentration of the agri-food system on just a few types of crops or plantations reduces the resilience. Today, 66% of the human diet depends on nine plants. This challenge opens a window of opportunities for the food industry to explore diversification with ingredients that promote biodiversity, reduce both vulnerability and dependence, and offer functional benefits and new flavors that satisfy the consumers' expectations.

On another note, deforestation, which is mainly caused by the expansion of the farming boundaries, is one of the main drivers of the loss of species of fauna and flora, along with the fishing overexploitation, which has generated significant declines in the resources provided by the sea. That is why it is highly important to ensure the traceability and sustainable origin of the commodities based on a model that allows keeping a balance between sustainability and productivity while maintaining the competitiveness of the sourcing processes.

## Outlook

As part of its goals for 2030, Grupo Nutresa will focus its biodiversity-related work on the execution of actions that help preventing and minimizing its negative impact, as well as preserving and regenerating biological diversity along the value chain, either directly or indirectly, with partners and third parties, in a consistent manner with its Corporate Biodiversity Policy.

The Organization will start executing the sustainable and competitive sourcing work plans, which constitute a fundamental part of the roadmap for 2030, of Grupo Nutresa's main 16 commodities: beef, pork, chicken, coffee, cocoa, wheat, sugar, milk, oilseeds, fishing resources, fruits and vegetables, nuts, eggs, tea, potatoes and potato flour, and concentrates. Each one of these will be differentiated according to the nature of their risks, impact and opportunities.

Finally, the actions in the medium term will be focused on the following fronts:

- Deeper understanding of the value chain, connection with the origin, traceability and promotion of leading practices for the integrated development of the chain.
- Regenerative agriculture and livestock farming projects, both independent and collaborative with allied suppliers.
- Development of partnerships that leverage resources, efforts and knowledge based on common objectives to produce a net-zero impact on biodiversity.
- Design of products focused on the use of ingredients that are sustainable regarding biodiversity: non-timber resources of the forest, unconventional agricultural raw materials and access to sustainable marine and fishing resources.
- Restoration of ecosystems, protection of forests and reforestation through the projects run by Grupo Nutresa, its Business Units or its brands.

## Practices that stood out and acknowledgments



EDICIÓN  
**ESPECIAL**

**MATIZ**  
· MAESTRÍA EN CAFÉ ·

EDICIÓN ESPECIAL  
CAPITALES DEL  
**OSO DE ANTEOJOS**

**04**  
AROMA: Fresa  
NOTAS: Mandarina  
SABOR: Pizca amarilla  
NOTAS: Cacao  
CUERPO: Medio y balanceado  
CAFÉ TOSTADO Y MOLIDO  
Café: 100% Arabica 1kg p

Comprando este café apoyas al programa **Conservamos La Vida** para proteger el hábitat del **oso de anteosjos**.

Apoyan:

GRUPO ARGOS  
Fundación

WCS

Fundación  
Smurfit Kappa  
Colombia

CVC  
Comisión Nacional  
Reguladora del Café  
de Colombia



### Launch of the 'Oso de Anteosjos' (Andean bear) Matiz coffee [GRI 304-4]

The Andean bear or spectacled bear (*Tremarctos ornatus*) is a species categorized as vulnerable by the International Union for Conservation of Nature (IUCN). The absence of information and the lack of a unified and standardized strategy have been obstacles for its protection.

Through its Coffee Business Unit, Grupo Nutresa participates in the public-private partnership for the conservation of this species. The partnership studies the interaction dynamics of the bear with rural communities, the implementation of actions intended

to preserve natural habitats, and the improvement of the production activities carried out by rural communities, which include land used for growing coffee.

This initiative represented an opportunity to favor the involvement of the brands which, with the launch of the special edition of the 'Oso de Anteosjos' (Andean bear) Matiz coffee in the municipalities of El Águila —state of Valle del Cauca— and El Tambo —state of Cauca— in Colombia, achieved positive interventions in the conservation processes focused on preserving the bear populations and improving the rural communities that coexist with this species.

## Practices that stood out and acknowledgments



### Planting one million trees [GRI 304-3]

In 2020, Grupo Nutresa started the process of planting one million trees within the framework of its strategies centered on the conservation of water and the adaptation to climate change in areas of transition into the paramo ecosystem. This tree-planting initiative, organized jointly with the Más Bosques Corporation, has allowed improving the quality of life in rural areas and generating income for approximately 401 families that are in charge of the collection and rustification of native tree seeds, as well as the sowing and maintenance of planted trees in the Colombian states of Antioquia, Norte de Santander and Cesar. In 2021, the initiative reached an approximate total of 319.000 trees planted and the rustification of more than 120.000 seedlings that will be planted in the first quarter of 2022.



### Offsetting emissions through restoration, protection and reforestation projects

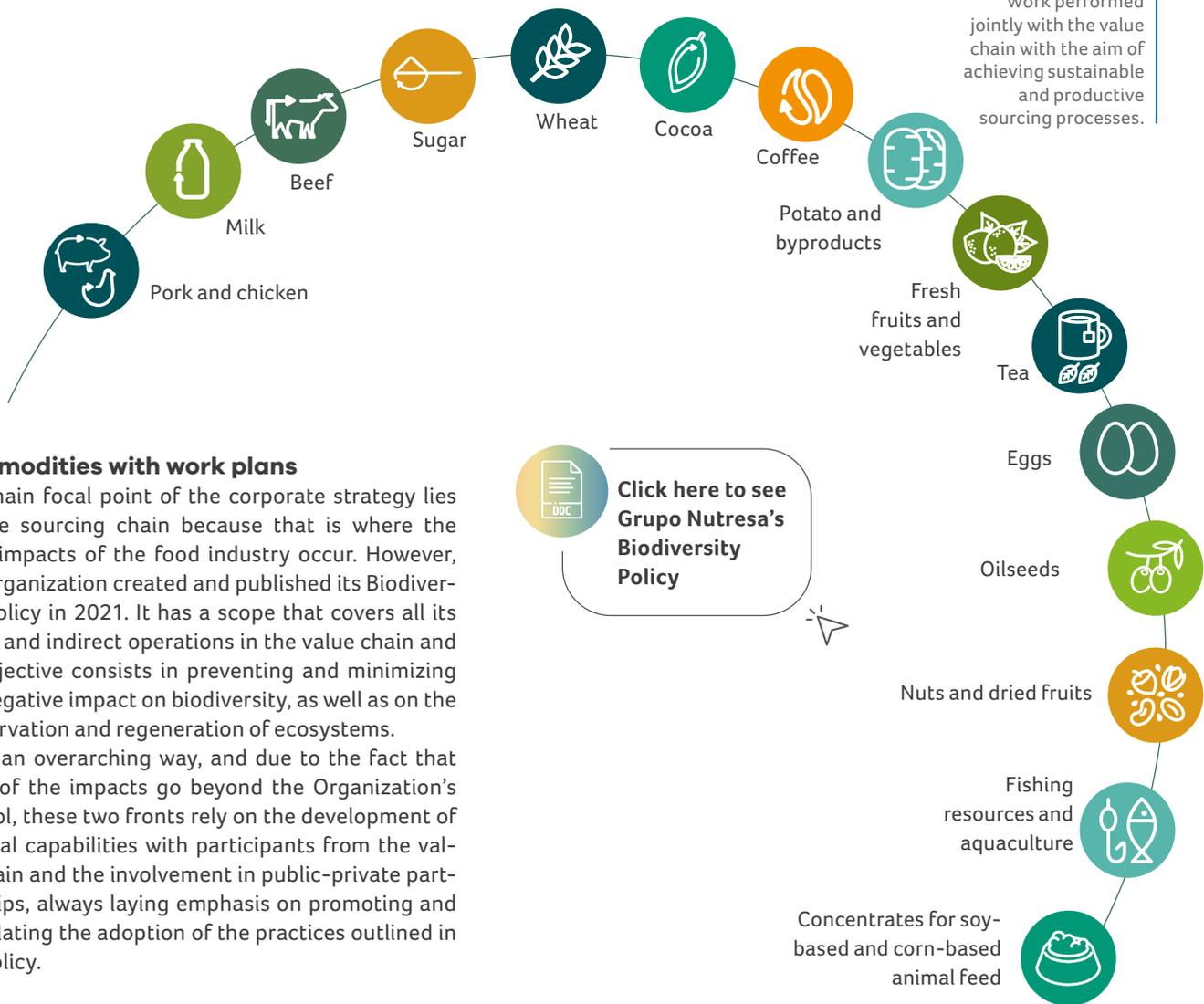
As part of the commitment Grupo Nutresa's brands have taken on to work according to higher purposes that contribute to mitigate a global challenge, Tosh, Evok, Livean and Zuko measure, reduce and offset emissions on a yearly basis to be granted the carbon neutral seal.

In 2021, these brands offset 22.622 tons of CO<sub>2</sub> eq., mostly by means of projects focused on the conservation, restoration and reforestation, such as:

- BanCO2 initiative, Forest conservation in the eastern Antioquia region in Colombia.
- Bosque Vivo Osa, Fonafifo, Payment methodology for environmental services in Costa Rica.
- I-REC certificates, Electric power from renewable sources in Colombia.
- Project focused on the conservation of the Costa de Valdivia reserve in Chile.
- REDD+ Project in the Colombian Amazon rainforest.
- Wind power portfolio in India.

### Material topic details

Grupo Nutresa has set a goal for 2030 that consists in ensuring that 100% of the commodities used by the Organization are supplied in a productive and sustainable way, thus successfully conserving biodiversity. This goal draws a long-term operation horizon that will materialize with the implementation of 16 work plans formulated for the same number of commodities that represent more than 80% of the Company’s volume of purchases.



### Commodities with work plans

The main focal point of the corporate strategy lies on the sourcing chain because that is where the main impacts of the food industry occur. However, the Organization created and published its Biodiversity Policy in 2021. It has a scope that covers all its direct and indirect operations in the value chain and its objective consists in preventing and minimizing the negative impact on biodiversity, as well as on the conservation and regeneration of ecosystems.

In an overarching way, and due to the fact that most of the impacts go beyond the Organization’s control, these two fronts rely on the development of internal capabilities with participants from the value chain and the involvement in public-private partnerships, always laying emphasis on promoting and stimulating the adoption of the practices outlined in the Policy.



### Analysis of potential impacts on biodiversity [GRI 304-1], [GRI 304-2], [GRI 304-4]

Since 2015, Grupo Nutresa has been working with the WWF on the in-depth analysis of the farming chains related to palm oil, and both meat and dairy livestock farming. The selection of these chains is based on the potential impacts on biodiversity, the ecosystems and all other environmental and social issues.

The analysis of the chains included an assessment of the environmental, biodiversity-related, social and governance-related risks, as well as the creation of an action map for their transformation. As a result of this work, in 2021, Grupo Nutresa developed the guides of leading agricultural and livestock practices for the beef and dairy chains, and drew up recommendations for the incorporation of these capabilities among the Company's partners. The guides also include recommendations and guidelines for avoiding the degradation of the ecosystems caused by changes in the use of soil, and offer suggestions on the adequate use of agrochemicals in such a way the potential adverse impact on pollinators is reduced, as well as the imbalance in the nutrient cycles.

In 2021, the Company conducted an analysis focused on determining the presence of directly controlled operation centers that could be located near high-conservation-value areas (category UICNI I-IV). The outcome of the analysis showed that, to date, none of the operation centers in all the geographies where Grupo Nutresa has presence are located in areas with such classification. The analysis will continue to be broadened over the coming years in order to perform the corresponding assessment in areas of production processes focused on cattle and swine integration.

Support provided to honey suppliers in the Colombian state of Antioquia.

### Products and ingredients that improve biodiversity

Since 2015, Grupo Nutresa has been working on a project intended to promote the research and development of new products, services and experiences to rescue the use of ancestral alternative ingredients broadly excluded from the food chains. Within the framework of this initiative, the Organization identified around 350 ingredients with potential to be used, 50 of which were fully described and 25 were prioritized for their incorporation in products.

The Kibo brand, which has a strong presence in the United States, Colombia and Central America, offers a portfolio of products with ingredients such as green peas, lentils and chickpeas. These ingredients constitute an alternative to the consumption of corn, wheat and rice, which are regularly used in the production of pasta and *snack* products.

The following are other Grupo Nutresa brands that make a sustainable and diversified use of ingredients:

- Naturela, with ingredients such as turmeric, *spirulina* and moringa.
- Doria and its different items made with quinoa.
- Evok, with the commercialization, at its points of sale, of natural bee honey produced by small Colombian farmers.

## Partnerships that preserve biodiversity

### Cocoa, Forests and Peace

The Chocolates Business in Colombia is one of the signatories of the 'Cocoa, Forests and Peace' agreement, an initiative intended to promote zero-deforestation production models that favor the protection and restoration of forests in the cocoa value chain, work on the development of sustainable production and livelihood models for the farmers, and generate social inclusion options, mostly in areas of critical importance regarding the Colombian post-conflict process.

### Cocoa Cesar Project in Colombia

In Colombia, Fundación Nutresa supported the Chocolates Business in the development of the initiative titled "Comprehensive strengthening of the productive linkage of cocoa with a vision focused on the conservation of the tropical dry forest ecosystem in the Colombian state of Cesar," which has an impact on three municipalities and benefits 115 families that are part of small farmer associations.

With this initiative, the Organization was able to intervene more than 4.279 hectares (10.573,64 acres) through the participative property tax planning, the evaluation of sustainability indicators and the execution of actions to promote the cocoa production chain, thus linking the restoration, conservation and connectivity of the dry forest with an agro-ecological vision regarding production.

In addition, the Company delivered 22.900 units of coca plant material for the rehabilitation or expansion of plantations and 78.375 trees for the reforestation, vegetative restocking and restoration of zones degraded by erosion or water resource protection zones. Furthermore, Grupo Nutresa carried out training and capability-building activities regarding subjects such as soil management, rehabilitation and conservation, functional biodiversity, efficient water resource management and climate change mitigation and adaptation. The tropical dry forest is an ecosystem with more than 97% of its current coverage around the world in danger of extinction, and only 8% in Colombia. That is why this project is significantly important for the conservation of a key ecosystem for planet Earth. **[GRI 304-3]**



Cocoa farmer in the Colombian state of Cesar.



## Circularity

Reducing the production of waste and increasing its recovery and reutilization in both the direct operations and the value chain by extending the life cycle of the materials.



“Nutresa Retoma” (Retake) Program executed with the collaboration of Comercial Nutresa shopkeepers.

### Management approach [GRI 3-3]

### Progress achieved in 2021 [GRI 3-3]

Increasing the use of recyclable, reusable or compostable materials.

- From the total weight of the packaging solutions, 85,7% is manufactured using recyclable, reusable or compostable materials.

Strengthening the initiatives focused on the eco-design of wrappers and packaging.

- Reduction of 200 tons in the usage of packaging materials under the *design-to-value* (DTV) methodology, for a total accrued reduction of 3.016 tons since its implementation in 2013.

Designing and implementing initiatives focused on closing the cycle of post-consumption plastic materials.

- 43 tons of plastic packaging materials were collected through the “Nutresa Retoma” (Retake) Program, the Organization’s own reverse logistics model for recovering post-consumption flexible plastics from the market in five Colombian cities.

Reducing the waste produced in Grupo Nutresa’s operations.

- 24,3% reduction in the production of the waste that is disposed of into the environment per ton produced with regard to 2020 in the Company’s industrial operations.

Increasing the percentage of waste produced that is recovered and reused.

- 92% of the waste is recovered and reused in the industrial operations.

Implementing packaging reutilization models.

- 128-ton decrease in the usage of cardboard throughout the year thanks to the implementation of a corrugated cardboard boxes reutilization model in the products of the Chocolates and Biscuits Business Units commercialized by Novaventa.



Employee from the Cold Cuts Business in Colombia.

### Risks and opportunities [GRI 3-3]

Grupo Nutresa is aware of the risks that deficient waste management strategies can entail for the planet and people in the countries where the Organization operates, and how important it is to implement circular economy models that guarantee their adequate management throughout the life cycle.

This environmental and consumption sensitivity has permeated the companies and the stakeholders who, as the response to a stronger social pressure, have striven to mobilize the governmental bodies to establish new regulations for the use and final disposal of waste.

This reality is an opportunity to find different strategies that contribute to the construction and implementation of circular alternatives, and that provide tools to consumers and all other stakeholders to strengthen a sustainable culture in the proper sorting of waste at the source. These actions will increase waste recovery and reuse rates in the countries where the Company operates, which currently present low levels of reutilization.

Finally, the use and exploration of new technologies still represent major opportunities for the Organization as they allow making the solutions more efficient, from the information management and the traceability to the collection and final disposal of the materials, in order to produce a deeper impact and broader scope.

### Outlook

The Organization makes progress in the fulfillment of its commitment for 2030 that consists in having 100% of the packaging materials of its brands designed to be recyclable, reusable or compostable, and in achieving the goal of zero industrial waste disposed of into the environment. Therefore, the Company has created a team of packaging specialists with the purpose of working on the formulation of strategies and actions regarding the circularity of the packaging materials.

Grupo Nutresa intends to keep permeating in an overarching manner all the companies through workstreams focused on the exploration and analysis of new recyclable, reusable or compostable packaging solution structures for the multiple product categories, the implementation of eco-design initiatives, the life cycle analysis and the exploration and implementation of cycle-closing solutions. With these actions, the Organization expects to achieve, in the short term, the incorporation of the necessary capabilities, both internally and externally, that facilitate the transition to the circular economy and the comprehensive waste management.

On another action front, Grupo Nutresa will continue strengthening the partnerships in order to boost the packaging materials recovery and reuse chains in corporate collective organizations such as Vision 3030 of the National Business Association of Colombia (ANDI) and Chile's GRANSIC de AB.

Finally, the Organization has committed to dispose zero waste of into the environment. To fulfill this commitment, the Company has set to overcome several challenges, such as: continue working on the characterization and identification of the variety of waste by process, and fostering new networks focused on recovering and reusing waste across all geographies.

## Practices that stood out and acknowledgments



### “Nutresa Retoma” (Retake) Program

Corporate program focused on closing the cycle of post-consumption flexible plastic packaging materials, thus contributing to the strengthening of the recycling and cycle-closing culture. This initiative has entailed the establishment of more than 500 stockpiling spots in five Colombian cities and facilitates the collection process for employees, clients and consumers through multiple mechanisms such as stockpiling spots in the facilities and the collection at clients’ locations carried out by Comercial Nutresa and the Novaventa entrepreneurs in Medellín and Cali.

Thanks to this program and the joint work with its stakeholders, the Company was able to collect and transform 43 tons of post-consumption flexible plastic material in 2021, which were converted into two playgrounds for the benefit of 1.110 children from educational institutions in Medellín.



The program includes a georeferencing system and educational activities with the aim of facilitating the delivery of the materials available here.



### Eco-packaging manufactured with coffee husk

The Coffee Business jointly with the Medellín Metropolitan Technology Institute (also known as ITM) secured the patent in Colombia and the registration in the United States of a packaging material manufactured with coffee husk and other vegetable fibers. This packaging solution is both biodegradable and compostable, and can be used for making cups, trays, cutlery, plates and other elements with the purpose of replacing single-use plastics. In 2021, satisfactory results were obtained in the pilot tests and the project moved on to the final stage of assembling the equipment for the production of coffee cellulose. With this initiative, the Company expects to achieve the re-purposing of 200.000 tons of coffee husk in Colombia.



### Composting of ashes produced by Tresmontes Lucchetti in Chile

On a monthly basis, the production plants in Santiago and Casablanca generated approximately 12 tons of ashes as a result of the operation of the boiler. These ashes represented 65% of the total waste that was sent to the landfill as there was no alternative for re-using it. In 2021, a partnership emerged with strategic managers with the purpose of recovering and reusing the ashes as composting in a different industry, thus reducing the environmental impact of the production plants. In total, 74 tons of ashes were effectively re-purposed.

Packing process in the Coffee Business in Colombia.



## Material topic details

Grupo Nutresa has been enhancing its strategy focused on managing the packaging materials and waste by establishing initiatives that contribute to the fulfillment of the corporate goals regarding process circularity.

That is why, in 2021, the Company reached 85,7% progress in the goal set at 100% for 2030 and has laid particular interest on reinforcing the development of capabilities and the culture in relation to sustainable packaging solutions among both employees and stakeholders. The following are some of the initiatives that stand out:

- Consolidation of the *packaging eco-design manual* that was implemented in 2020 and has produced positive results with the establishment of an internal culture focused on sustainable packaging solutions and the application of the eco-design simulator in the new packaging developments in all Business Units and geographies.
- Development of the Circular Economy Workshop with the objective of leveling the criteria and identifying the opportunities to implement circular solutions in the processes and Business Units. The training activity was hosted by Waste to Worth (Waste2Worth), comprised nine hours in three work cycles and included the participation of 46 suppliers from the category of packaging materials, as well as 224 Grupo Nutresa employees.

GC Foods, Colombia.

### Consumption of packaging materials

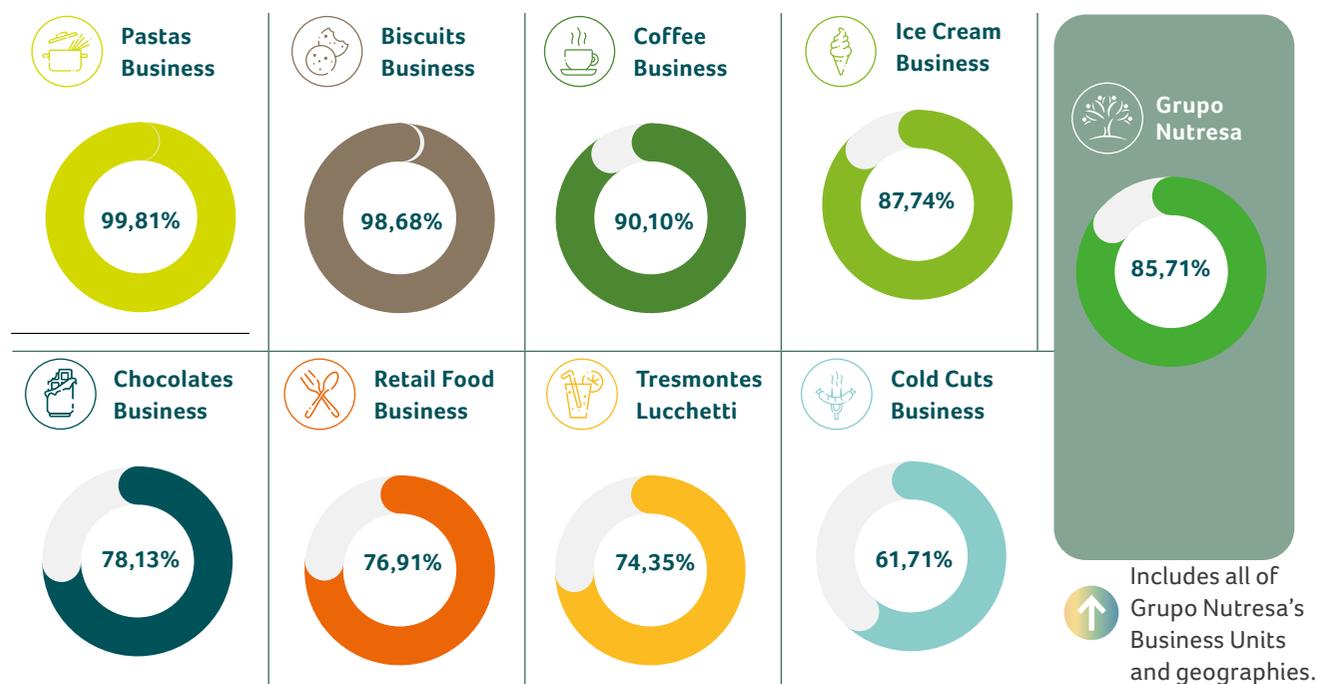
[GRI 301-1] [FB-PF-410a.1] [FB-PF-410a.2]

The percentage of closed-cycle packaging materials rose to 85,7%, considering all the packaging material categories in all countries and Business Units. This increase was achieved due to the prioritization of materials with closed-cycle models and, in turn, to the design of recyclable, reusable or compostable packaging solutions. In 2021, it is worth highlighting the transition to recyclability of nine packaging structures in Chile, Colombia, Costa Rica, Mexico and the Dominican Republic.

With regard to reusable packaging materials, the Company has four models of this type: two in Colombia, in the cardboard boxes of the Chocolates and Biscuits Business Units through Novaventa, which allowed avoiding the consumption of 128 tons of cardboard; and two in the Dominican Republic, with the reuse of plastic containers and caps to avoid consuming 277 tons of rigid plastic packaging.



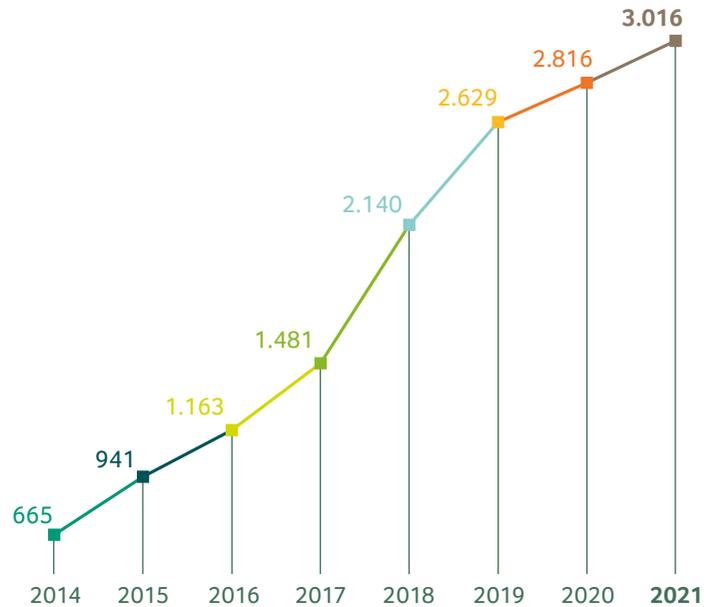
#### Share of closed-cycle materials



With the implementation of the *design-to-value* (DTV) methodology, the Company was able to decrease the use of packaging materials by 200 tons in 2021, for a total accrued reduction of 3.016 tons in nine years the methodology has been in place. This decrease was possible thanks to efficient design initiatives that take into account the attributes valued by consumers, the behavior of the market in general and the context of the entire value chain.

In addition, it is worth highlighting the replacement of virgin white paper with *Kraft* paper for the boxes of the Retail Food Business in Colombia, which allowed reducing the consumption of materials by 62,6 tons. The Company implemented 20 initiatives in the category of flexible packaging materials and 11 more in the category of corrugated cardboard boxes in Chile, Colombia, Costa Rica, Panama, Peru and the Dominican Republic. These initiatives allowed achieving reductions of 42,5 tons in the consumption of plastic materials and 113,3 tons in the use of cardboard.

Reduction of packaging materials in tons



**Recycled materials used**

[GRI 301-2] [FB-PF-410a.1] [FB-PF-410a.2]

To enhance the circular economy processes for the packaging solutions, the Organization favors the materials that include a content of recycled raw materials in its composition. Therefore, in 2021, 74% of the cardboard, 46% of the glass and 52% of the metal packaging materials used by Grupo Nutresa in Colombia included recycled materials. In the case of cardboard boxes that do not contain recycled materials, the Company worked with suppliers that hold sustainable production certifications, such as the Seal of the Forest Stewardship Council (FSC), which is why 100% of the materials used in the cardboard boxes are recycled or have certified virgin fibers.

**Reclaimed products and their packaging materials**

[GRI 301-3] [FB-PF-410a.1] [FB-PF-410a.2]

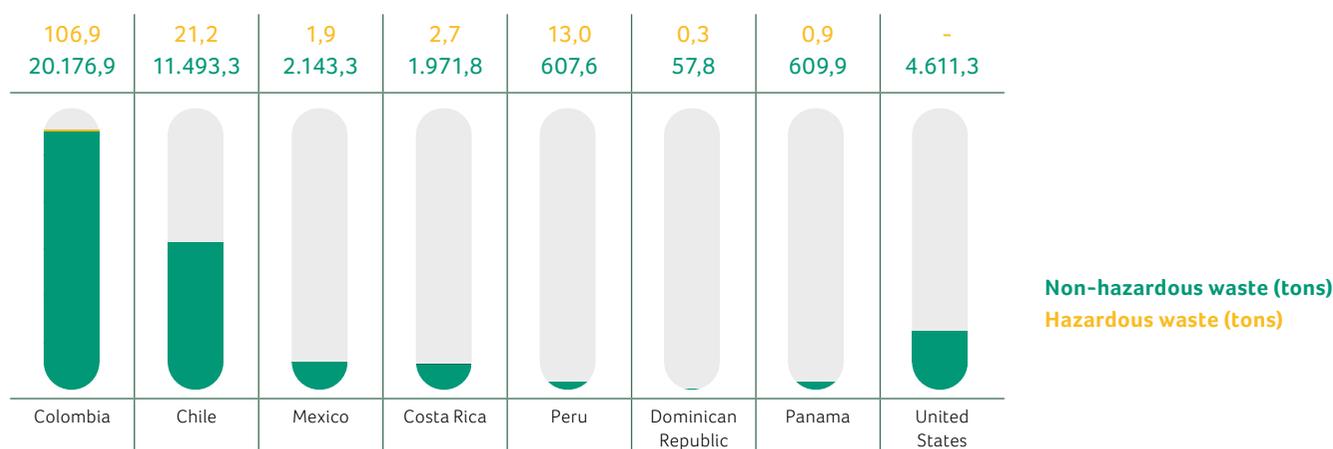
The Organization continues working on the design and execution of initiatives focused on closing the cycle of post-industrial and post-consumption packaging materials. It is worth highlighting the initiatives deployed by the Cold Cuts Business in Colombia which, in collaboration with its strategic partners, transformed 171 tons of post-industrial flexible plastic materials from the deboning process into bags for waste management and into the high-barrier materials in the plastic crate manufacturing process. Additionally, through other post-consumption packaging projects, such as the “Nutresa Retoma” (Retake) Program, 43 tons of flexible material and 3,5 tons of Nutresa Express Pods were transformed.



For further information about Grupo Nutresa’s commitment for 2030 regarding packaging materials, please read the Sustainable Packaging Policy.



Total weight of waste [GRI 306-1] [GRI 306-2] [GRI 306-3] [GRI 306-4] [GRI 306-5] [FB-RN-150a.1]



Within the framework of the circularity strategies, the management of waste in the operations is a fundamental part of the efforts focused on reincorporating the reusable materials into the production chain.

In 2021, Grupo Nutresa reduced the waste that is sent to landfills and the security-cell waste by 24,3% in relation to 2020, which is equivalent to 3.900 tons of waste that the Company avoided disposing of into the environment. In addition, from the 49.244 tons of waste produced in the industrial operations, 92% was re-purposed or used to generate energy.

The progress achieved correspond to the implementation of re-purposing projects for multiple types of waste, as it is the case of the ashes from Tresmontes Lucchetti's boilers in Chile: the Organization avoided disposing 74 tons of waste of into the landfills. Moreover, the Biscuits and Cold Cuts Business Units, through partnerships with specialized managing firms, have utilized approximately 23 tons of hazardous waste to generate energy, thus reducing the waste disposal to security cells.

The Biscuits Business in Colombia avoided using 11 tons of cardboard thanks to the reuse of cores by means of a reverse logistics process carried out jointly with the suppliers of flexible materials. For its part, the Chocolates Business in Colombia has implemented cardboard recirculation and plastic cycle-closing strategies that have made it possible to recover more than 160.000 boxes and 72 tons of plastic. In Peru

and Colombia, this Business Unit has implemented new sorting practices that have had a positive impact on waste recovery and re-purposing; thus, through a second phase of detailed sorting, this Business Unit has been able to recover approximately 80 tons of reusable waste.

#### Analysis of the strategies intended to decrease the environmental impact of packing materials [FB-FR-430a.4]

One of the tools for the efficient design of packaging solutions, Grupo Nutresa has at its disposal the Life Cycle Analysis Calculator (ACV). This tool measures the environmental impact that may be produced by the different types of packaging materials in for a specific product in all the stages of its life cycle, from the attainment of raw materials to the end of their service life. This tool helps to make timely decisions at the design stage regarding the type of packaging solution with the best environmental performance and to conduct an analysis of the current packaging materials with the aim of having criteria for replacing them with more efficient packaging solutions.

Grupo Nutresa's *packaging eco-design manual* is another element that contributes to the unification of criteria, the environmental impact analysis and the efficient use of resources; therefore, by performing the corresponding checks using the eco-design simulator, it is possible to identify opportunities to use packaging solutions that are more adequate for the product and have a better environmental performance.