Nut Trails
2022 Impact Report

Creating a collaborative trail to sustainable cashews and hazelnuts
In conversation with Ashok Krishen, CEO nuts, ofi

Tracking our progress on the trail to more sustainable nut supply chains

Why did we launch our Nut Trails strategies?

In 2021 we published our Cashew and Hazelnut Trail strategies, setting out a roadmap to find more creative, productive and sustainable ways of supplying cashew and hazelnut ingredients. We set dedicated 2030 targets aligned with the UN Sustainable Development Goals to scale up our impact on the most pressing issues in these supply chains by working with partners to improve farmer profitability, protect the rights of children and workers, and empower women in these farming communities.

What are the opportunities?

Our own consumer research last year pinpointed nuts as a popular choice in formulating plant-based products, with cashews and hazelnuts, as well as almonds, strongly associated with being tasty, natural, and healthy. We also know consumers are motivated by traceability, with 75% of those we surveyed saying they are willing to pay more for a sustainable product.¹

Our extensive farmer programs and innovation capabilities mean we can help customers satisfy this appetite with quality ingredients, from whole nuts and pieces to nut milks and powders, that deliver flavor and functionality. At the same time, we are also able to add value for the farmers and communities they come from, through a variety of tailored programs and technology.

What does this mean for our customers?

In collaboration with our customers and partners, we’ve delivered a number of milestones towards our Cashew and Hazelnut Trail targets, as set out in this first impact report. It brings to life over 12 months’ worth of impact data, which includes training 100% of seasonal hazelnut workers in our sustainability programs on gender equality, labor rights and children’s rights, and distributing over US$1million in premiums to cashew farmers.

I want to thank all our customers and partners who have contributed to our joint progress and look forward to continuing our work together to be the change for more sustainable and traceable nuts supply chains.

Ashok Krishen,
CEO ofi’s nuts platform

¹ ofi survey consumer research into plant-based Nov 2022 (consumer research across five European countries).

Please get in touch
For cashews: cashewtrail@ofi.com
For hazelnuts: hazelnuttrail@ofi.com
ofi is present in all major cashew and hazelnut origins

- Sourcing Cashews
- Processing facilities
- Sourcing Hazelnuts
- Processing facilities

- India
- Burkina Faso
- Côte D’Ivoire
- Ghana
- Nigeria
- Turkey
- Cambodia
- Vietnam
- Nigeria
- Turkey
Progress highlights

**Cashews**

- **20,000+**
  Delivered training on Good Agricultural Practices to over 20,000 cashew farmers in 2022

- **$1M+**
  Distributed over $1,000,000 in premiums to cashew farmers in 2022

- **10**
  Sustainability partnerships

**Hazelnuts**

- **4,002**
  Farmers in the hazelnut sustainability program trained on gender equality, labor rights and children’s rights

- **↑11%**
  Hazelnut supply chain traceability increased by 11% in 2022

- **13**
  Sustainability partnerships
Our focus areas to create impact

**Prosperous Farmers**
We cannot supply nut ingredients without the farmers who grow them, so the size and quality of their yield is critical to their success and our own. Our on the ground presence in farming communities around the world means that we understand the challenges farmers in each part of our supply chain face, from limited access to labor to poor soil. We can deliver impactful partnerships with our customers that contribute to real improvements in crop yields and quality through our network of agronomists and sourcing experts.

**Thriving Communities**
Many of the farming communities we source from are in rural areas with limited access to essential infrastructure. Poor working conditions, inadequate health services, and limited education can negatively impact farmers' incomes and their overall quality of life. The challenges faced in our hazelnut and cashew supply chains are different, so we tailor our support to help communities develop and prosper to local need.

**Climate Positive**
The effects of climate change threaten crop yields and quality for farmers around the world, and nuts are no different. Late spring frosts can harm hazelnut crops in Turkey, while unseasonal rains and heavy dew can affect cashew yields. This presents a direct threat both to farmers' livelihoods and to global efforts to achieve food security. We are working with farmers to improve their resilience to the impacts of climate change and reduce their own environmental footprint.

**Regenerating the Living World**
Regenerative agriculture is an approach to farming that improves farmer livelihoods and resilience by ending harmful and destructive practices, optimizing inputs, and working with nature to restore and enhance Natural Capital (Soil, Water, Biodiversity and Carbon) on and around farms. We support this model by helping farming communities become stewards of the environment, delivering the tools and training to grow more on existing land and reduce the environmental impacts of food production.

**Sustainable choices**
ofi is able to offer end-to-end traceability that allows our customers to measure and drive progress against their social and environmental targets - and give consumers the information and assurance they want about who grew their nuts, and where they came from.
Prosperous farmers

<table>
<thead>
<tr>
<th>Nut category</th>
<th>2030 Goal</th>
<th>Progress 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cashew</td>
<td>250,000 cashew farmers trained in Good Agricultural Practices</td>
<td>20,365 farmers</td>
</tr>
<tr>
<td></td>
<td>US$4mn distributed in premiums to cashew farmers globally</td>
<td>$1,014,330</td>
</tr>
<tr>
<td></td>
<td>250,000 cashew households supported for enhanced livelihoods</td>
<td>36,231 households¹</td>
</tr>
<tr>
<td></td>
<td>50% yield increase for cashew farmers in our managed programs (baseline: 2021 crop)</td>
<td>55% yield increase on 409 farms in Ghana¹</td>
</tr>
<tr>
<td></td>
<td>50,000 cashew farmers trained on literacy and numeracy</td>
<td>3,666 (Training programs started in 2022 and will be rolled out over the coming years)</td>
</tr>
<tr>
<td></td>
<td>100,000 cashew farmers trained on business and marketing skills</td>
<td>To commence in 2024</td>
</tr>
<tr>
<td></td>
<td>100% of employees in processing facilities have access to professional skills and development opportunities</td>
<td>94.69%</td>
</tr>
<tr>
<td></td>
<td>100% of registered women farmers participate in farmer training programs</td>
<td>46% of registered women farmers</td>
</tr>
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<tr>
<th>Nut category</th>
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<th>Progress 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women</td>
<td>50,000 women benefitting from labor saving tools and equipment</td>
<td>Needs assessment in progress.</td>
</tr>
<tr>
<td></td>
<td>50,000 women have access to Village Savings and Loan Associations (VSLAs)</td>
<td>Community research phase complete. Implementation to begin 2023.</td>
</tr>
<tr>
<td></td>
<td>50,000 hazelnut farmers trained in Good Agricultural Practices</td>
<td>6,352 hazelnut farmers</td>
</tr>
<tr>
<td></td>
<td>50% yield increase for hazelnut farmers (baseline: 2020 crop)</td>
<td>6.98% compared to 2020 crop in all sustainability program farmers.²</td>
</tr>
<tr>
<td></td>
<td>100% of women farmers trained in Good Agricultural Practices (GAP) and Good Social Practices (GSP) each year</td>
<td>100% (556) (76 in our supply chain + 480 other women farmers)</td>
</tr>
</tbody>
</table>

¹ Includes farmers and wider members of farming communities
² Each year we conduct yield monitoring, and although we have seen progress, results are impacted by seasonal variation. Field teams in all of our origins focus on yield enhancement practices and we expect to see the results in the coming years in our managed programs.
³ 23.7% of the farmers in 2020 have been in our supply chain in 2022 and their yield increase is recorded as 21.43% compared to 2020. Turkey’s general yield increase was stated as 15% between 2020 and 2022.
## Thriving Communities

<table>
<thead>
<tr>
<th>Nut category</th>
<th>2030 Goal</th>
<th>Progress 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reach 500,000 people in cashew communities with nutrition and health support</td>
<td>106,014 people</td>
<td></td>
</tr>
<tr>
<td>Educate 250,000 cashew farmers on disease prevention and first aid</td>
<td>2,414 cashew farmers¹</td>
<td></td>
</tr>
<tr>
<td>Improve health infrastructure in 1,000 cashew farming villages</td>
<td>127 villages</td>
<td></td>
</tr>
<tr>
<td>100% of employees in cashew processing facilities have access to nutrition programs and support</td>
<td>100% achieved</td>
<td></td>
</tr>
<tr>
<td>10,000 children, from directly sourced cashew communities, benefiting from investments into education infrastructure</td>
<td>1,859 children¹</td>
<td></td>
</tr>
<tr>
<td>100% of farmers educated on gender equality, labor rights and children’s rights</td>
<td>100% (2,292 in our supply chain + 4,060 other farmers)</td>
<td></td>
</tr>
<tr>
<td>100% of all women seasonal migrant workers trained on health, nutrition, and labor rights</td>
<td>100% (3,442) (identified through internal monitoring)</td>
<td></td>
</tr>
<tr>
<td>100% child labor monitoring and remediation in managed programs each year</td>
<td>100% under CLMRS</td>
<td></td>
</tr>
<tr>
<td>Zero grievances logged by workers against farmers in managed programs</td>
<td>Zero grievances achieved</td>
<td></td>
</tr>
</tbody>
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<tr>
<th>Nut category</th>
<th>2030 Goal</th>
<th>Progress 2022</th>
</tr>
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<tbody>
<tr>
<td>Zero instances of non-compliance with the ofi Agri Supplier Code in audited programs</td>
<td>Zero instances recorded</td>
<td></td>
</tr>
<tr>
<td>Invest in extra-curricular activities for 10,000 children in hazelnut sourcing communities to improve their physical and mental wellbeing</td>
<td>236 children²</td>
<td></td>
</tr>
<tr>
<td>Provide science equipment and teacher training for 20 schools, to benefit 8,000 children</td>
<td>2,840 children in 7 schools</td>
<td></td>
</tr>
<tr>
<td>Distribute school stationary kits to 10,000 children to enrich education</td>
<td>1,278</td>
<td></td>
</tr>
</tbody>
</table>

¹ Target changed from 100% to numerical due to annual farmer number fluctuations in our supply chain
² Target changed from 100% to numerical due to annual farmer number fluctuations in our supply chain
## Climate positive

<table>
<thead>
<tr>
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<th>2030 Goal</th>
<th>Progress 2022</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Reduce GHG emission intensity in cashew supply chains by 50%</td>
<td>Calculation in progress¹</td>
</tr>
<tr>
<td></td>
<td>Increase use of renewable energy to 30% of total consumption in processing facilities</td>
<td>No progress due to changes in facilities</td>
</tr>
<tr>
<td></td>
<td>Conduct soil analysis for 10,000 farmers to optimize fertilizer use</td>
<td>71% farmers</td>
</tr>
<tr>
<td></td>
<td>100% of farmers trained on crop residue management and composting practices</td>
<td>100% (6,352 farmers)</td>
</tr>
</tbody>
</table>

## Regenerating the living world

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<th>Nut category</th>
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<th>Progress 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Train 250,000 farmers on climate-smart agricultural practices &amp; reducing waste</td>
<td>No progress to report. Climate-smart agricultural practices training module to be added to GAP training in 2023</td>
</tr>
<tr>
<td></td>
<td>Build landscape partnerships to end ecosystem losses &amp; regenerate forests in all high-risk sourcing areas</td>
<td>Research into implementation potential complete. Identification of partners &amp; geographies to commence in 2023.</td>
</tr>
<tr>
<td></td>
<td>6,000 farmers are engaged on nature-based climate solutions</td>
<td>Nature-based climate solutions identified with feasibility study underway.²</td>
</tr>
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## Sustainable choices

<table>
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<th>Progress 2022</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100% traceability in direct supply chain²</td>
<td>47% (+11% 2021)</td>
</tr>
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</table>
Prosperous farmers – our work so far

Cashews

The majority of cashew farmers are smallholders, and their farms are their main source of income, with the price they are paid for their crop driven by a competitive international market. In Nigeria for example, over 24% of cashew farmers live below the poverty line\(^1\). We are working with farmers to improve their yields and the quality of their crops. Their needs can vary significantly, from farmers with very small plots of land who need support and loans to diversify their income, to those able to invest for themselves but need upskilling to optimize productivity.

Hazelnuts

Hazelnut trees are hardy perennials, requiring no irrigation and can thrive despite harsh growing conditions. However production in Turkey is hampered by aging orchards and inadequate farming practices which is why OFI’s agronomists provide training on Good Agricultural Practices to help improve yields and quality.

Progress highlights

- **36,231** cashew households supported for enhanced livelihoods
- **$1,014,330** cashew premiums distributed
- **46%** of registered women farmers participated in farmer training programs
- **6,352** hazelnut farmers trained on Good Agricultural Practices

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The diversity of farm sizes, yields, skills, and economic context in our supply chains, means that interventions are more effective when tailored to each farmer’s reality. By applying a segmentation model to ofi’s extension services, we can tailor training and support to farmer’s economic circumstances and willingness to invest.

Following the roll out of farmer segmentation in some of our coffee supply chains, ofi’s cashew team in Ghana adopted the model in 2021 and segmented 5,400 farmers to then tailor interventions accordingly.

Positive results so far include **55% yield increase** recorded from 409 farms in category B due to adoption of advice on timely pruning and pest management.

By understanding our farmers’ needs, we can increase the impact of our interventions on the ground whilst keeping costs down for customers and consumers.

### Farmer Segmentation: A success story in Ghana

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**Cashews**

**Farmer Segmentation: A success story in Ghana**

<table>
<thead>
<tr>
<th>Farm Size (Ha)</th>
<th>Yield (l/Ha)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>8%</td>
</tr>
<tr>
<td>B</td>
<td>22%</td>
</tr>
<tr>
<td>C</td>
<td>18%</td>
</tr>
<tr>
<td>D</td>
<td>52%</td>
</tr>
</tbody>
</table>

*This chart reflects the percentage of farmers in each segment.*

**Action plan for tailored interventions**

**A** **Employed entrepreneur**
- Land access and ownership for women
- Credit facilities
- Distribution of higher quality grafted seedlings

**B** **Resourceful smallholder**
- GAP training
- Adoption of pruning practices
- Increased farm visits by ofi field officers

**C** **Big landowner**
- Increase seedling distribution over 2-3 years
- Encourage tree planting
- Increase GAP training
- Credit facilities and farm equipment

**D** **Diversified**
- Facilitate additional income-generating activities e.g. bee keeping
- Improve GAP training attendance
- Establish demo plots for sharing best practice

*Big landowners have more than 7 ha. of land with more than 750kg/ha yield.*
Cashew farming communities are largely located in rural areas, where it is hard to access education and healthcare. Often there is a lack of suitable school buildings, so we have invested in vital infrastructure, like new school classrooms, to improve access to and the quality of education. We also provide access to health across our cashew supply chain, from the farms we source from to our processing facilities. That might be screening programs for infant malnutrition in Côte d’Ivoire, where 1 in 5 children experience stunted growth and development, to supporting female employees at our processing facilities in Vietnam to continue breastfeeding when returning to work. Our country teams have now reached over 106,000 people in cashew communities with health and nutrition interventions.

Workers on hazelnut farms are often migrant workers who are drawn to the hazelnut farms with their families for the harvest period. This marginal status puts their economic and social wellbeing at risk, particularly for women and children in these families. That is why we focus on providing training on gender equality, labor rights, rights and health and nutrition.

1 https://data.unicef.org/country/civ/
Improving nutrition and health in cashew communities

In 2022, our Côte d’Ivoire teams screened over 2,500 children using the newly developed Infant Malnutrition System Alert (IMSA) smartphone-based application, with 49 moderate and acute cases identified and referred to healthcare facilities. This was achieved in partnership with Côte d’Ivoire’s National Nutrition Program (PNN).

The application was developed by Stephanie Konan, one of ofi’s sustainability analysts and helps identify and geolocate malnutrition cases. These are then referred to the local medical authorities to ensure the cases are treated.

Also in 2022, our team in Côte d’Ivoire launched Project 99, which focused on providing the community clean water, as well as gender equality and health resources for ofi factory workers. While only 15% of people are using safely managed drinking water services in rural areas, ofi successfully installed 10 water borewells in different villages. In addition, ofi’s factory workforce, 80% being women, were given access to one of the first daycare centers within a facility certified by the Côte d’Ivoire Women, Family and Children Ministry. Fifty children from 6 months to 3 years were registered by the end of the year. ofi daycare also provides a breastfeeding area for the nutritional wellbeing of the babies and the parents.

In Nigeria, 582 cashew farmers attended workshops hosted by our team and the Nigerian Ministry of Health to educate them on prevention and treatment of infectious and chronic diseases, including neglected tropical diseases (NTD).

In Vietnam, our cashew team rolled out a workplace lactation program in partnership with NGO Alive & Thrive to support female employees in their breastfeeding journey when returning to work. Activities include in-person training sessions on breastfeeding best practices and appropriate use of lactation equipment in private worksite rooms. Online workshops and trainings were also conducted for employees and management teams to ensure support is given to all pregnant women and new mothers in the workplace.

Building on the success of our existing partnerships, we plan to explore similar high-impact and innovative solutions with partners across our cashew origins.
Nearly 3,000 children under the age of 18 were registered through our Child Labor Monitoring and Remediation System (CLMRS) app. The CLMRS helps monitor for child labor in our supply chain and takes swift, effective action if a child is ever identified as at risk. During the harvest season, we use this CLMRS data to conduct unannounced farm inspections to make sure any cases of child labor are identified and addressed.

A lack of childcare facilities can increase the risk of child labor as migrant worker parents are left with no choice but to bring their children with them onto farms. The team has been working to remove these risks during the harvest period by hosting a variety of activities, including a summer school program in Turkey run in partnership with the Ministry of Education and the local authorities. This was attended by 423 children during the 2022 harvest, and many more children were given education kits.

"Our friends always talked about summer schools in the evenings. They’ve been given bags, given shoes, given everything they need. Then I came to school. I’m glad I came."

Ali, 11-years-old, Şanlıurfa, Summer School program 2022
The Women on the Roads for Hazelnuts project aims to educate women engaged in seasonal agriculture about the health risks they face due to mobile or temporary living conditions and help them to take preventive measures.

Since 2020, 5,211 women have been given face-to-face training on important health topics such as:

- Female Reproductive Health
- Pregnancy
- Breastfeeding
- Hygiene
- Breast Cancer Prevention
- Awareness and Diagnosis
- Nutrition and Obesity

As well as gathering information about the status, attitudes and tendencies of women engaged in seasonal agricultural work in permanent and temporary settlements, the project began by scheduling household visits to ensure those women understood their rights during seasonal agricultural work.

In 2022, a total of 1,528 female seasonal migrant workers were given health screenings. By performing blood tests, the ofi team was able to determine and inform the women about their risk of conditions including diabetes, anemia and iron deficiency. For those deemed at risk, the team provided extra training on how to manage their health to avoid further complications.

Additionally, the ofi team trained 1,437 men on human rights, workers’ rights, women’s and children’s rights, and working conditions of seasonal migrant workers as part of the same project. The ‘Women on the Roads for Hazelnuts’ project won the women empowerment category at the 2022 Sustainable Business Awards.
Climate positive – our work so far

**Cashews**

Climate change poses unique challenges for cashew farmers. Their crops are particularly vulnerable to climate change due to the sensitivity of cashew trees to changes in temperature, rainfall patterns, and extreme weather events that are becoming more common in cashew producing countries, such as droughts, floods, and storms. We need to help farmers address the impact of changing weather patterns on their crops, while also reducing the environmental impact of cashew farming. We are currently collecting data on the ground from cashew farmers to understand the productivity and condition of their crops, the inputs they use on their farms, fertilizer use, and the risk of deforestation. This is helping us to build a picture of the emissions produced on farms and how we can reduce them.

**Hazelnuts**

Fertilizer use in agriculture contributes to greenhouse gas emissions, so using fertilizers smartly is an important way to reduce the environmental impact of the food we eat. In our hazelnut supply chain, we have been working with farmers to help them accurately analyze their fertilizer needs. This helps ensure that farmers are using the right amount of fertilizer to produce the best crop possible and avoiding over-usage. The team is also working with hazelnut growing communities to manage the use and disposal of other chemicals to ensure that the natural environment is protected.

Progress highlights

- **soil analysis conducted for 714 farmers**
- **100% of farmers trained on crop residue management and composting practices**
Climate positive – in action

Decarbonization in the hazelnut supply chain

Since 2018, we have been using AtSource, our sustainability management system, to drive change for farmers, communities, ecosystems, and customers. AtSource demonstrates social and environmental performance by providing a comprehensive view on sustainability data and metrics across supply chains. In 2022, we reached 714 farmers with recommendations on optimum fertilizer application, tracking the yearly changes in fertilizer-related emissions.

AtSource’s Digital Footprint Calculator (DFC) is an online calculator used to estimate the environmental footprint of agricultural products, based on agricultural activity data. The tool calculates the environmental impact in three key impact categories for agriculture: Climate Change, Water Use and Land Use. The footprint calculation is based on the principles of agricultural life cycle assessment (LCA) modeling as described in the World Food LCA Database Guidelines.

Using our internal data management system, we have been collecting farmers’ data on a wide variety of sustainability metrics, such as their use of pesticides, irrigation, and types and amounts of fertilizer used. Our analysis shows that fertilizer is responsible for more than half of agricultural emissions. Many hazelnut farmers use chemical fertilizers, and some can apply too much fertilizer without knowing the needs of the soil. Overuse of such fertilizers disrupts the nitrogen cycle and damages soil quality.

That is why we use soil analysis to give farmers more precise information on the needs of the soil, so that fertilizer use can be optimized, and carbon emissions minimized. Our internal monitoring suggests that in 2022, 88% of those farmers were following our recommendations, helping to ensure fertilizer is being used correctly for the best results.

Thanks to soil analysis, I got to know my farm’s soil better. Last Autumn, I had soil analysis of two of my plots. I made the fertilization of these two plots according to the results of the analysis. To other plots that I did not have analysis for, I used the 26 Nitrogen fertilizer as always in the past. According to the results of the analysis, while the leaves are greener and the husks are fuller in the farms where I fertilize, in other farms the leaves turn yellow and even some parts of them are dried and the husks look weaker. This year, I will make soil analysis in other plots, and I will use the fertilizers according to the result of the analysis.

Name: Mehmet Bakioğlu
Province/Town/ Village: Ordu/Fatsa/Kösebucağı
Regenerating the living world – our work so far

**Cashews**

Originally, the main intention of introducing cashew into Africa from India was to use it as a restoration species plant for degraded areas in drier agroecosystems. However, given farmers’ lack of access to knowledge about good agricultural practices and the importance of biodiverse landscapes for resilient farming and food systems, multi-stakeholder efforts are required to prevent cashew production expanding at the expense of natural ecosystems. With training and better access to finance, farmers can improve yields and quality by growing cashew in mixed agroforestry systems. In 2022, using single point GPS, our cashew teams mapped over 55% of the cashew farms we source from through sustainability programs in Côte D’Ivoire, Ghana and Nigeria to identify potential deforestation risks. This is the first step towards forming landscape partnerships that aim to end ecosystem losses and regenerate forests in all high-risk sourcing areas by 2030.

**Hazelnuts**

For hazelnuts, our focus is on supporting nature-based climate solutions to capture carbon emissions and reduce our carbon footprint, as well as support local biodiversity. In 2022, our hazelnut team started the groundwork to identify the best climate solutions for hazelnut farms and how we can realistically help hazelnut farmers adopt them. Additionally, in 2022 our team worked with Proforest to conduct a landscape assessment and farmer perception survey to understand the status, type, extent and quality of environmental and biodiversity assets and how they are affected by hazelnut production. This will allow our teams to tailor interventions to the conditions of specific growing areas.

**Progress highlights**

- **Research**
  - On primary cashew production regions was performed in order to build an impactful climate-smart agricultural practices module

- **Landscape**
  - Assessment conducted to develop biodiversity interventions on identified hazelnut production areas

- **Cashew**
  - 65,000 cashew seedlings distributed

- **Hazelnut**
  - Applicable farms selected for nature-based solutions
Working with cashew growing communities in Ghana, we have identified an opportunity for farmers to gain another income stream and support their local ecosystem with beekeeping.

We have been helping smallholder farmers in our supply chain to become beekeepers, providing them with equipment and training that helps them to improve their income and quality of life. Farmers learn how to produce honey and beeswax, which they can either use themselves or sell to improve their income. Crucially, beekeeping can help to provide an income during the off-season, when cashew production is low, helping to reduce the seasonality of cashew farmers’ incomes.

The program is beneficial for local biodiversity, too. Bees play a vital part in the local ecosystem by pollinating local plants, including cashew trees. Improved biodiversity also supports soil health, and therefore cashew crop yields, meaning that our beekeeping programs can support both the economic and environmental health of our cashew supply chain.
According to Global Forest Watch, the forestry industry is the primary source of deforestation in Turkey. In our hazelnut supply chain, deforestation risk is low and we aim to prevent ecosystem damage by taking a risk-based approach. In 2022 we shared farm polygon data for 275 hazelnut farmers in our Turkish supply chain with Rainforest Alliance. This granular data, extracted from the government’s TKGM farmer registry system, allowed Rainforest Alliance to conduct third-party analysis of the risk of deforestation on these farms.

This analysis found that seven plots belonging to four farmers were at high risk of deforestation, either because the plot bordered a national forest, or was on the edge of rivers where trees may be lost to natural erosion or flooding. For these high risk plots, we contacted the farmers to create an action plan including training on responsible agroforestry.
Of is able to offer end-to-end traceability that allows our customers to measure and drive progress against their social and environmental targets – and give consumers the information and assurance they want about who grew their nuts, and where they came from.

The traceability of our ingredients is enabled by our deep-rooted presence in all our major cashew and hazelnut origins. By 2030, we aim to achieve 100% traceability in direct supply chain. This will be made possible by our on-the-ground teams, who work closely with farmers to collect and improve our supply chain data. We manage and apply this data to our sustainability programs with AtSource, our award-winning sustainability management system, which is purposefully designed to map social and environmental impact and drive positive change for farmers, communities and ecosystems.

Through our metrics and action plans, AtSource brings our customers closer to the people and landscapes where their products come from, so they can better understand the issues on the ground and work with us to improve them.

How it works

Data available on AtSource covers value chains end-to-end, from the farm community, through to logistics, processing, and the factory gate.

- Three ascending tiers feature increasingly granular data and insights
- Each tier builds on and carries forward the benefits from previous tiers
- Developed to meet multiple needs, from environmental reporting and risk mitigation to transformational change
- Provides valuable content to inform and steer every customer’s sustainability journey, from new entrants to mature leaders.

AtSource V
For companies who are starting their sustainability journeys and want to manage reputational risk:

- Supply assurance and compliance
- Country-level environmental footprinting and third-party risk screening
- Traceability to farmer-group level
- External verification
- Targeted action plans for continuous improvement

AtSource +
For customers wanting a more detailed picture and granular data on the conditions at the source of their products. In addition to all AtSource V attributes, AtSource+ offers:

- Risk and performance assessment in additional sustainability requirements that go beyond our reference practices
- Granular metrics offering comprehensive insights, specific to each supply chain
- Advanced environmental footprints based on primary data
- Annual third-party verification
- Impact delivered through targeted programs, as well as stories from the field on sustainability outcomes

AtSource ∞
The most aspirational tier. Created to drive transformation and net-positive impact at scale. AtSource∞ offers:

- Programs co-created with communities, customers, and other partners, like civil society organizations and government bodies
- Landscape-level transformational goals
- Multiple projects aligned to each Landscape Transformational Vision whereby small projects can deliver sub-goals to deliver transformational net-positive impact through partnerships
Three ways to engage

- By directly contributing to existing or new initiatives, based on premiums or a one-off payment.
- As a strategic or implementation partner, to help with volunteering personal time, technical expertise or resources for new and exciting initiatives on the ground.
- Through AtSource programmes which provide customers with engagement options tailored to individual sustainability ambitions.

Be the change for good food and a healthy future

2030

✉️ For hazelnuts: hazelnuttrail@ofi.com
For cashews: cashewtrail@ofi.com
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