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**meelunie**  
EST. 1867

# Plant Based Positive Impact

Responsibility Report 2022-2023

# 1. A Plant Based Welcome

## World

We see the complexities of transitions in food, energy, packaging and digitalisation in a world characterised by geopolitical tensions on the one hand and the urgent realities of climate change and biodiversity loss on the other. These challenges underscore the critical need for responsible and sustainable business practices.

## Protein Sector

We recognise that there are challenges to elevated consumer prices of plant-based proteins. Our commitment goes beyond meeting this challenge—it's about supplying high-quality, plant-based protein solutions that are accessible

to everyone. We need to improve product quality by refining taste and texture. We also need to respond to a growing consumer health consciousness by enhancing the nutritional and health aspects of our products. We are keen to show the world that plant-based proteins are not just a passing trend but an increasingly popular choice. It's about providing genuine alternatives to animal-based proteins.

## Meelunie

This broader perspective helps drive our vision: 'A balanced world where plant-based solutions drive positive impact.' In the years to come, Positive Impact will remain an integral part of

our daily activities. It will drive our performance and set the scope for our growth and the evolution of our portfolio. While doing this, we'll be guided by B Corp, the UN SDGs and our mission; 'To continue our long tradition of doing business with head and heart.'

**Marco Heering**  
Chief Executive  
Officer Meelunie



- Est. 1867
- Family roots
- 100% plant based
- Net Sales € 340 m
- FTE 112
- Countries 81

- IFS Baker
- GMP+ Manufacture
- cRC KOSHER LEADERSHIP FOUNDATION
- Skal
- OTCO
- NON GMO Project VERIFIED nongmoproject.org

PURPOSE

Plant Based Positive Impact

OUR BRANDS



VISION

A balanced world where plant-based solutions drive positive impact

MISSION

To continue our long tradition of doing business with head and heart



PRODUCTS

- Proteins
- Starches
- Fibers
- Sweeteners

CROPS

- Wheat
- Rice
- Corn
- Tapioca
- Fava Bean
- Potato
- Pea

INDUSTRIES



Food



Animal Nutrition



Paper Application



## **2. Added Value for Society**

## 2.1 Protein Transition

The protein transition represents a fundamental shift in the way we approach nutrition and sustainable food production. By transitioning the world from traditional animal-based proteins towards more sustainable plant-based protein sources we are helping address a range of global challenges. These include climate change, by having a lower environmental impact; better animal welfare; and less hunger, by providing alternative to animal-based proteins to feed a growing global population. For Meelunie, the protein transition also presents an opportunity to develop innovative and nutritious plant-based proteins.

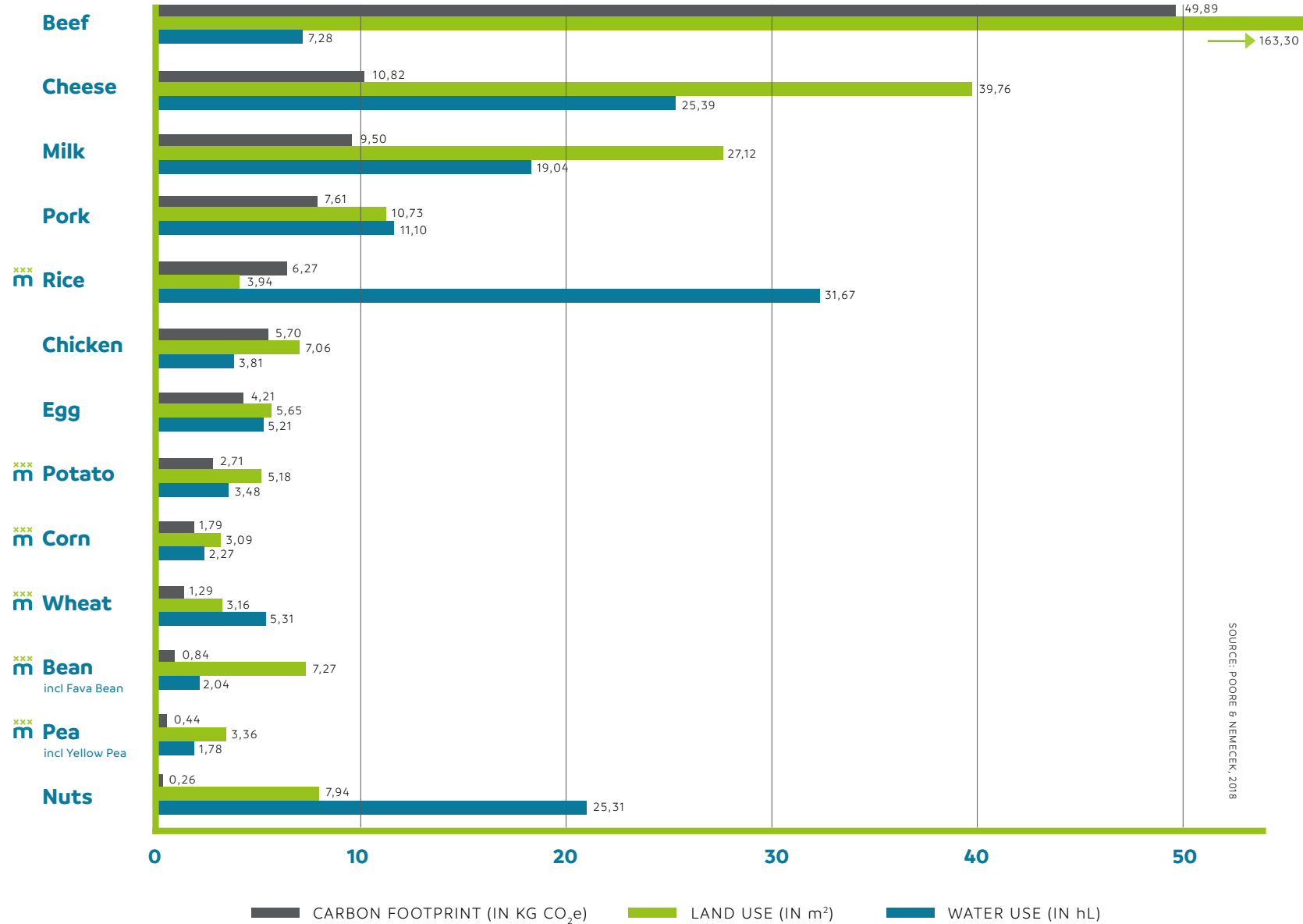
Plant-based proteins generally have a lower environmental impact, making them a great option for a sustainable food system.

## 2.2 Our role in this transition

At Meelunie, we believe we can accelerate the protein transition by helping to meet the growing demand for plant proteins and diversifying our protein portfolio. Through investments in research and development, we strive to offer innovative plant-based proteins that have better functionality, nutrition and/or taste. In doing so, we are creating a versatile range of food applications for our plant-based proteins, enhancing their accessibility.

We are dedicated to raising awareness about the benefits of plant-based proteins and actively advocate for their inclusion in diets. We work together with our customers to encourage and facilitate their widespread and effective use in product applications.

## Environmental Impact per 100g protein



SOURCE: POORE & NEMECEK, 2018

## 2.3 The game changer; fava beans

To support our role in the protein transition, in 2024 we are launching four highly innovative fava ingredients from our new facility in Denmark where sustainability is fully integrated into our business model. We developed a process methodology that highlights the neutral appearance and taste of the fava bean without harming the nutritional or functional properties of its fractions. Resulting in perfect ingredients for a wide range of food applications, from meat and dairy alternatives to sports nutrition. The table shows just how and why our fava bean value chain is so sustainable.



### Nature

Stressing the need for agricultural supply chains to be sustainable and circular, the EU has classified the fava bean as an important crop in helping close the continent's protein-deficiency gap.

Fava beans thrive in mild climates, making them one of the most efficient protein crops.

Fava bean intercropping increases biodiversity, which helps protect against the spread of diseases.

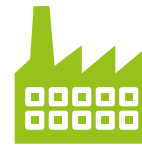


### Farmers

The fava bean is known as a pulse with excellent capabilities in fixing atmospheric nitrogen, reducing the need for nitrogen fertilizers.

Fava beans improve soil fertility and water-holding capacities, and loosen the soil. All of which are vital for a rich harvest.

By converting locally-cultivated fava beans into valuable and nutritious food ingredients, Meelunie GPI is making a long-term commitment to a versatile crop and providing a gateway for farmers to supply to the food industry.



### Process

#### Why is this step sustainable?

Meelunie GPI uses the most energy-efficient process equipment, including solar panels.

Meelunie GPI has formally committed itself to conducting business with consideration for society and the environment.

All process water used in our facility is cleaned and re-used.



### Logistics

We choose our modes of transportation based on cost and carbon footprint. This includes, thereby making partial use of intermodal transport.

We offer our customers fuel switch options in sea freight to further reduce transportation-related emissions.



### Customers

Our factory is designed to valorise the entire fava bean, leaving only a small percentage - as a side stream - unsuitable for food purposes.

In the next few months, we will be launching a tool (LCA) that gives our partners insight into the environmental impact of our products.

Together with our partners, we are unlocking the potential of fava bean protein even further, through our in-house application center, which will help accelerate the protein transition.

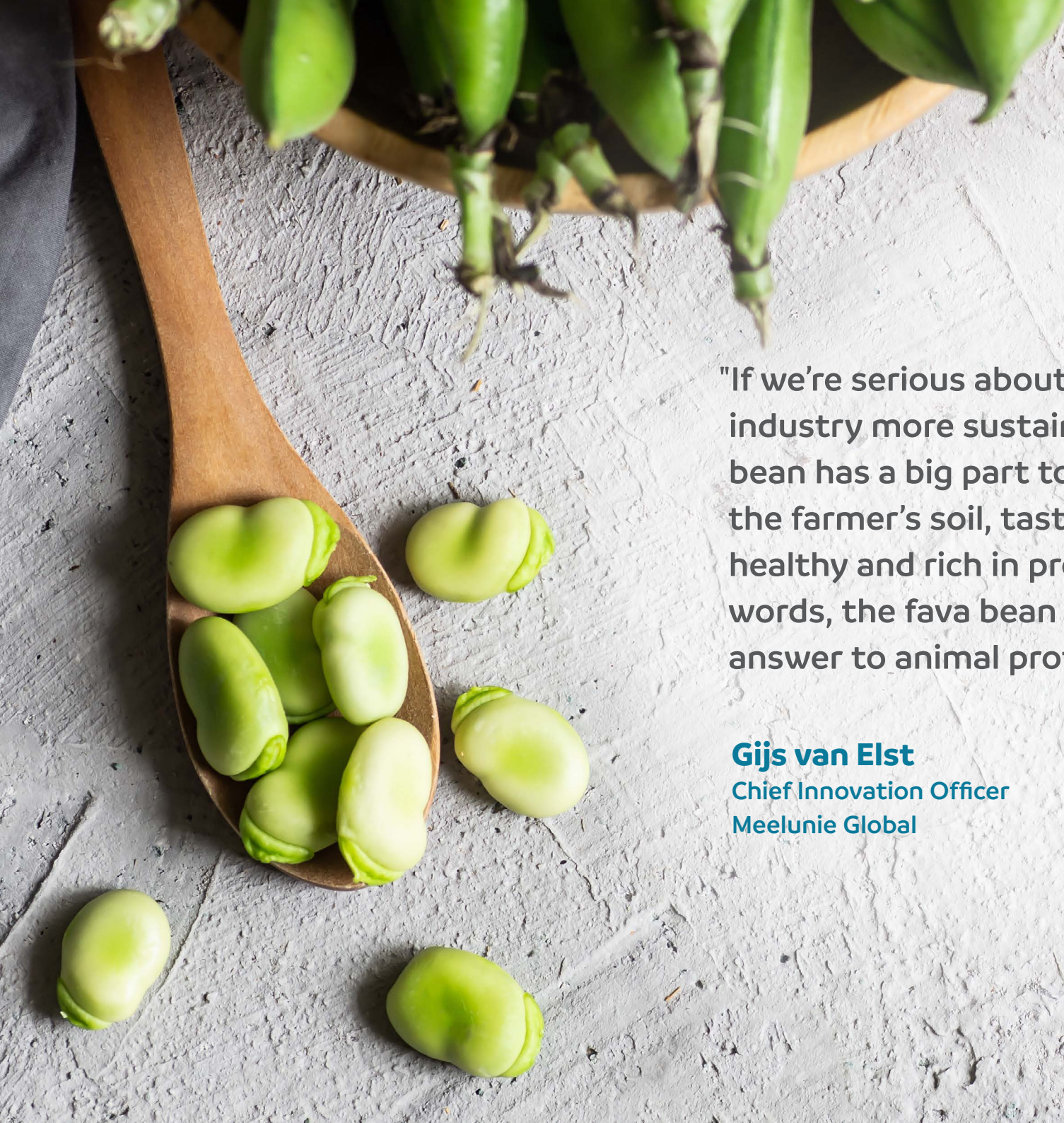


### Consumers

Fava beans are high in protein and packed with fibre.

Fava beans are cholesterol free and contain no saturated fat.

Fava beans are not considered a major allergen, unlike dairy and gluten.



"If we're serious about making the food industry more sustainable, the fava bean has a big part to play. It's good for the farmer's soil, tastes great, is super-healthy and rich in protein. In other words, the fava bean is the perfect answer to animal protein."

**Gijs van Elst**  
Chief Innovation Officer  
Meelunie Global



An aerial photograph of a farm during sunset. The sun is a bright, glowing orb on the right side of the horizon, casting a warm, golden light across the landscape. In the foreground, a large field of mature, golden-brown corn is being harvested by a green combine harvester. The harvester is moving from the bottom center towards the left, leaving a trail of harvested stalks behind it. In the middle ground, a large, circular center pivot irrigation system is visible, with its long metal arms stretching across the fields. In the background, a farmstead with several white buildings and a tall, cylindrical silo is situated on a slight rise. The overall scene is peaceful and captures the end of a day of agricultural work.

# 3. The World Around Us



### 3.1 Double Materiality

#### Stakeholders

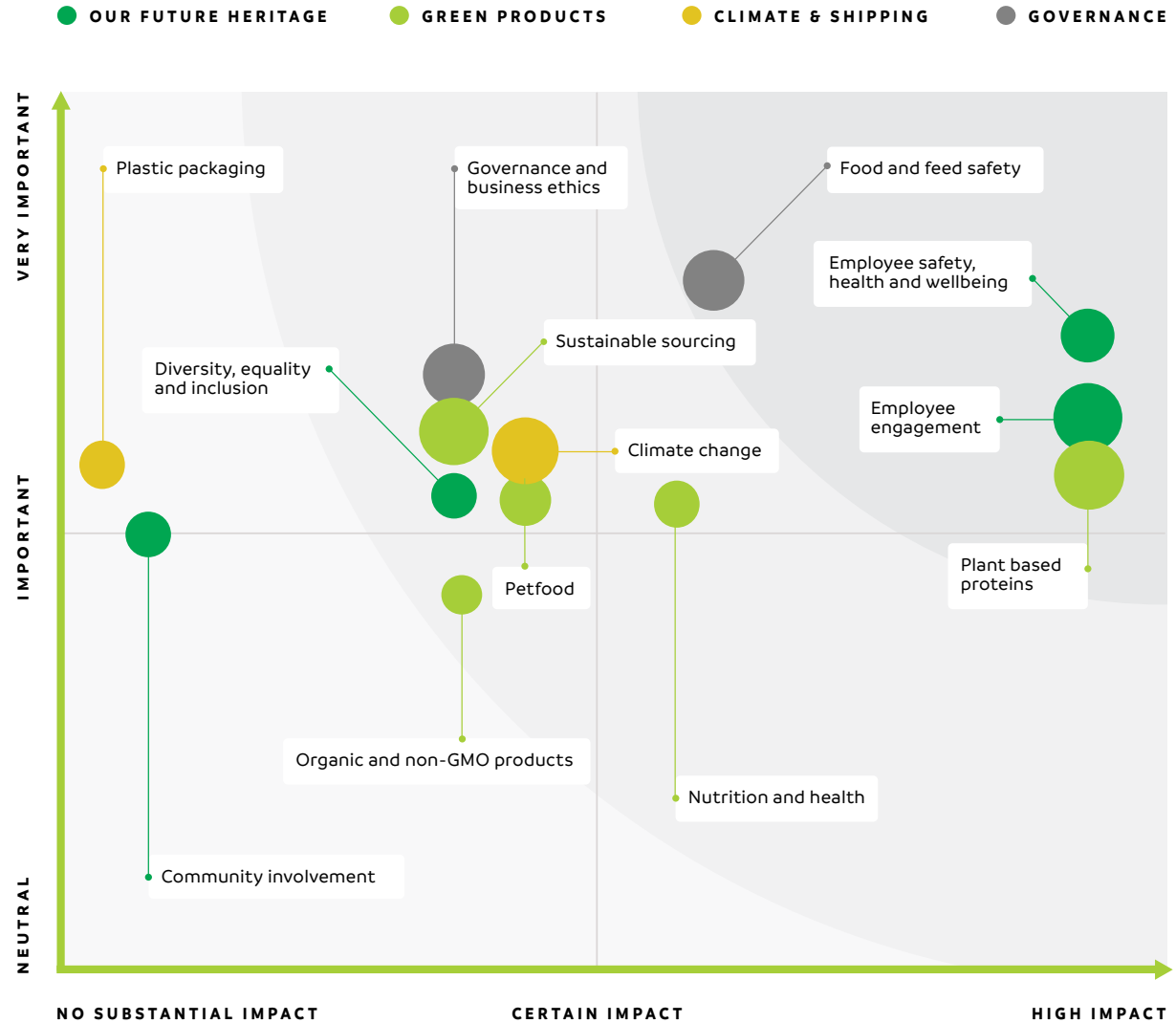
Our purpose can only be realised through collaboration with our stakeholders. Stakeholders are the people and groups who are affected by our actions and, in turn, can influence our company, products and services. Through empowering our employees, and engaging with our partners, we aim to create a sustainable mindset, stronger legacy and positive impact for generations to come. We've asked our stakeholders for their views on topics relevant to our business, impact and future. Their answers have helped us to define our Plant Based Positive Impact strategy, commitment to transition, and identify business opportunities.

#### CSRD

We want to be sure our positive impact efforts are effective. So in addition to the initiatives described above, we apply a concept known as 'double materiality'. This is also in anticipation of new European regulations under the Corporate Sustainability Reporting Directive (CSRD). The purpose of the CSRD is to improve the quality and comparability of non-financial information in the annual reports of companies. The material topics provide insights into Meelunie's impact on societal issues (impact materiality) on the one hand and how such issues influence the development, performance and position of Meelunie (financial materiality) on the other.

For each of the material topics included in the matrix, we report on input, process, output and outcome in our multiple value creation model.

### Importance to stakeholders



### Realisable impact of Meelunie

#### Questions asked

Y-axis: To what extent do you think it is important that Meelunie pays attention to these topics?

X-axis (impact materiality): To what extent do you think Meelunie may have an impact on these topics?

Size spheres (financial materiality): To what extent do you think these topics may have an impact on Meelunie's financial results?



"The materiality analysis, along with feedback from our value chain partners, helps us continuously improve and fine tune the alignment between our commercial ambitions and our Positive Impact."

**Casper Braam**  
Chief Commercial Officer  
Meelunie Global



## INPUT

### GOVERNANCE

- B Corp guidance
- Article of association includes CSR
- Code of Conduct including Anti-Bribery and Corruption Policy (Code of Ethics)
- International Featured Standards Broker
- GMP+ B3 Feed Safety Assurance

### WORKERS

- Employee Handbook including vitality, diversity guidelines and talent development;
- Training and Education: €50K
- Employees: 112 FTEs
- Executive Committee: 4 FTEs
- Internships: 4 students
- Different cultures: 30+
- Languages spoken: 20+
- Positive Impact Team: 11 members

### VALUE CHAIN

- Suppliers: 120
- Supplier Code of Conduct
- Sedex: ZC1072763
- Products: 81
- Customers: 545 in 81 countries
- Research & Development
- Food Valley (incl. The Protein Community)
- Green Protein Alliance
- Plant Based Food Association

### COMMUNITY

- Fork Ranger
- Green Business Club
- LifeSkills
- Oxfam Novib
- Refugee Talent Hub

### ENVIRONMENT

- BigMile
- CarbonCloud
- CarbonLeap
- GoodShipping
- FairClimateFund
- Stchting Stimular
- Scope 1 & 2: 138 mt CO<sub>2</sub>e
- Scope 3 (Logistics): 41K mt CO<sub>2</sub>e
- Scope 3 (Products): >80% mt CO<sub>2</sub>e

## 3.2 Multiple Value Creation

### PURPOSE

Plant Based Positive Impact



■ Our Future Heritage
 ■ Green Products
 ■ Climate & Shipping

## OUTPUT

### GOVERNANCE

- READ MORE: COMPANY PROFILE**
- **Governance and business ethics**  
Future-proofing our organisation
  - **Food and feed safety**

### WORKERS

- READ MORE: OUR FUTURE HERITAGE**
- **Employee safety, health and wellbeing**  
Health attendance: 97% (Amsterdam office)  
Employee retention: 108%  
Employee turnover: 20%
  - **Diversity, Equality and Inclusion**  
Female employees: 44%  
Female executive management: 25%
  - **Employee Engagement**  
Guarantee by Positive Impact team

### VALUE CHAIN

- READ MORE: COMPANY PROFILE & GREEN PRODUCTS**
- **Sustainable sourcing**
  - **Organic & non-GMO products**  
Organic products: 3%  
Non-GMO project products: 24%
  - **Nutrition and health**
  - **Plant based proteins**  
Sustainable fava bean proteins factory
  - **Petfood**
  - **Plastic packaging**

### COMMUNITY

- READ MORE: OUR FUTURE HERITAGE**
- **Community Involvement**  
Participation in microcredit programmes  
Gave 6,571 households access to clean cooking  
Recognised training and internship company  
Donation of refurbished smartphones to, and fundraising for, underprivileged children  
Helped 6 refugees to get on in life

### ENVIRONMENT

- READ MORE: CLIMATE & SHIPPING**
- **Climate Change**  
Participation in carbon measurement, reduction and compensation programmes  
Round tables sessions about carbon accounting  
Integrated logistics carbon data in ERP system  
Scope 1 & 2 compensated  
Rotterdam → Shanghai reduced  
714 mt CO<sub>2</sub>e reduced via CarbonLeap  
380 mt CO<sub>2</sub>e compensated via GoodShipping  
2,857 mt CO<sub>2</sub>e compensated via FairClimateFund  
Planted 360 trees via Trees for All

## OUTCOME

### GOVERNANCE

To continue our long tradition of doing business with head and heart.

### WORKERS

We invest in a happy, diverse, informed workforce to create satisfied and loyal employees.

### Employee satisfaction

★★★★☆

### VALUE CHAIN

We grow our network with equal partners, co-operating in a fair and sustainable value chain.

### Supplier satisfaction

★★★★☆

### Customer satisfaction

★★★★☆

### COMMUNITY

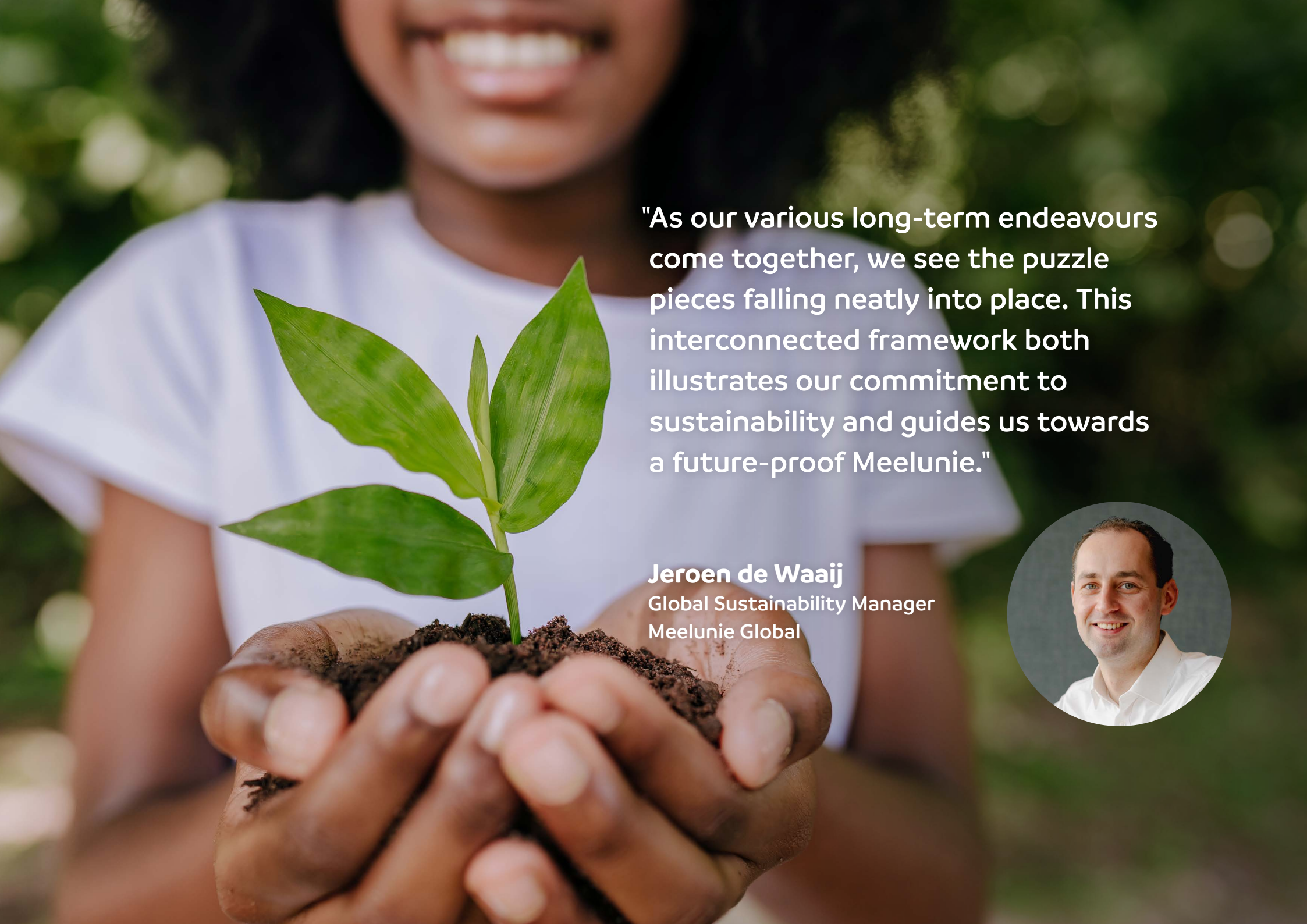
We feel part of the local communities we operate in. Through our commitment to support various local, national and international initiatives, we aim to support people in improving their lives.

### ENVIRONMENT

We take our responsibility in tackling climate change through small and large initiatives to reduce our carbon emissions.

### Carbon interventions

3,951 mt CO<sub>2</sub>e

A young girl with a joyful expression is holding a small, vibrant green plant with three leaves in her cupped hands. The background is a soft-focus green, suggesting an outdoor setting. The text is overlaid on the right side of the image.

"As our various long-term endeavours come together, we see the puzzle pieces falling neatly into place. This interconnected framework both illustrates our commitment to sustainability and guides us towards a future-proof Meelunie."

**Jeroen de Waaij**  
Global Sustainability Manager  
Meelunie Global



An aerial photograph of a rural landscape featuring several large agricultural fields. The fields are in various stages of growth or harvest, showing colors ranging from vibrant green to dark brown. A paved road curves through the fields, and a single tree with reddish-orange foliage stands near the road. The overall scene is a patchwork of agricultural land.

# 4. Meelunie Positive Impact

# Our Future Heritage

## SOCIALLY ENGAGED



### Ambition

The purpose of Meelunie goes beyond simply making a profit. We want to make a difference in tomorrow's world, by giving our colleagues equal opportunities regardless of their backgrounds and creating zero waste in our operations. We also work hard to be socially engaged with the communities in which we operate. As a more than 150-years-old family business, we have always cared for our people and our supply chain partners. And by building on this legacy, with a sustainable agenda for the future, we believe we can remain relevant for the next 150 years and beyond.

### SDGs

**SDG3 Good Health & Well-being.** We foster workplace happiness and strive for self-development within an entrepreneurial mindset.



### Impact areas

- Governance;
- Workers;
- Community (in and near offices).

### Achievements

- B Corp review;
- Updated Employee Handbook including vitality, DE&I guidelines and talent development;
- Multicultural event in our Amsterdam office;
- 4 internships (1 CSR-related thesis);
- Completed Materiality Analysis;
- Completed sustainability trainings in all offices and teams;
- 5 (internal) Positive Impact podcasts;
- Gave a guest lecture on sustainability;
- Support to several public organisations, including Green Business Club Amsterdam and Oxfam;
- Participated in Refugee Talent Hub; (see next page)
- Employee initiative fundraising for LifeSkills; (see next page);
- Benchmarked international offices on carbon emissions per FTE;
- Formalised 2 sustainability champions in Detroit and Chicago offices;
- Updated Business Travel Awareness Guide, Ethical Marketing Awareness Guide and Home Office Awareness Guide.

### Lessons learned

- Developing a 100% positive impact mindset with all Meelunie employees takes time;
- B Corp helped identify our blind spots, such as putting common practice on paper.

### Next steps

- Become part of the B Corp community;
- Further collect documents for B Corp certification;
- Audit B Corp and celebrate this milestone;
- Align and engage Meelunie offices and employees in CSR activities;
- Expand our Meelunie Positive Impact team to more international offices;
- Sustainability training for colleagues to grow a sustainable mindset internally;
- Prepare for CSRD.





### 4.1.1 Refugee Talent Hub

Refugee Talent Hub is an organisation bringing employers and refugees closer together with the aim of getting paid jobs. During the period, each refugee is matched with a mentor, and meets up on a regular basis for 5 months to learn from their mentor's experience how they can be successful in finding a suitable job in a new country and environment. What is great about this organisation is that the mentees have the chance to meet not only with foreign employees who have been through the process of learning to adapt to a new culture, but also with C-level managers who can reveal the refugee's capabilities and give them the opportunity to work in the most suitable position for them.



"I am proud to be involved with this organisation as a mentor. Sharing my experiences and challenges with the mentee, and what I have learned from him in return, have changed me and my perspective in a very positive way. I believe as humans we are made up of experiences, and as we share them and connect with one another we become motivated to do the wonderful things that can help make this world a better place."

**Deniz Tezel**  
Mentor Refugee Talent Hub

### 4.1.2 LifeSkills

LifeSkills is a foundation that supports young people aged 10-18 in developing life skills and self-confidence, and with personal growth and citizenship education. The participants generally live in a socio-economically challenged area of Amsterdam, where many kids lack positive role models, and the sources of inspiration and motivation that most of us take for granted. We have supported LifeSkills since 2021, and over the years, the demand for their service has grown so much that there is a waiting list of 250 kids now.



"As funds are a major challenge for LifeSkills, we held a fundraiser because we see this as a great opportunity for all of us to engage, participate and make a real impact in the local community near our Amsterdam headquarters. This initiative will have a genuine effect on our community and create opportunities for the kids who need them most!"

**Bekim Mehovic**  
Initiator fundraising for LifeSkills

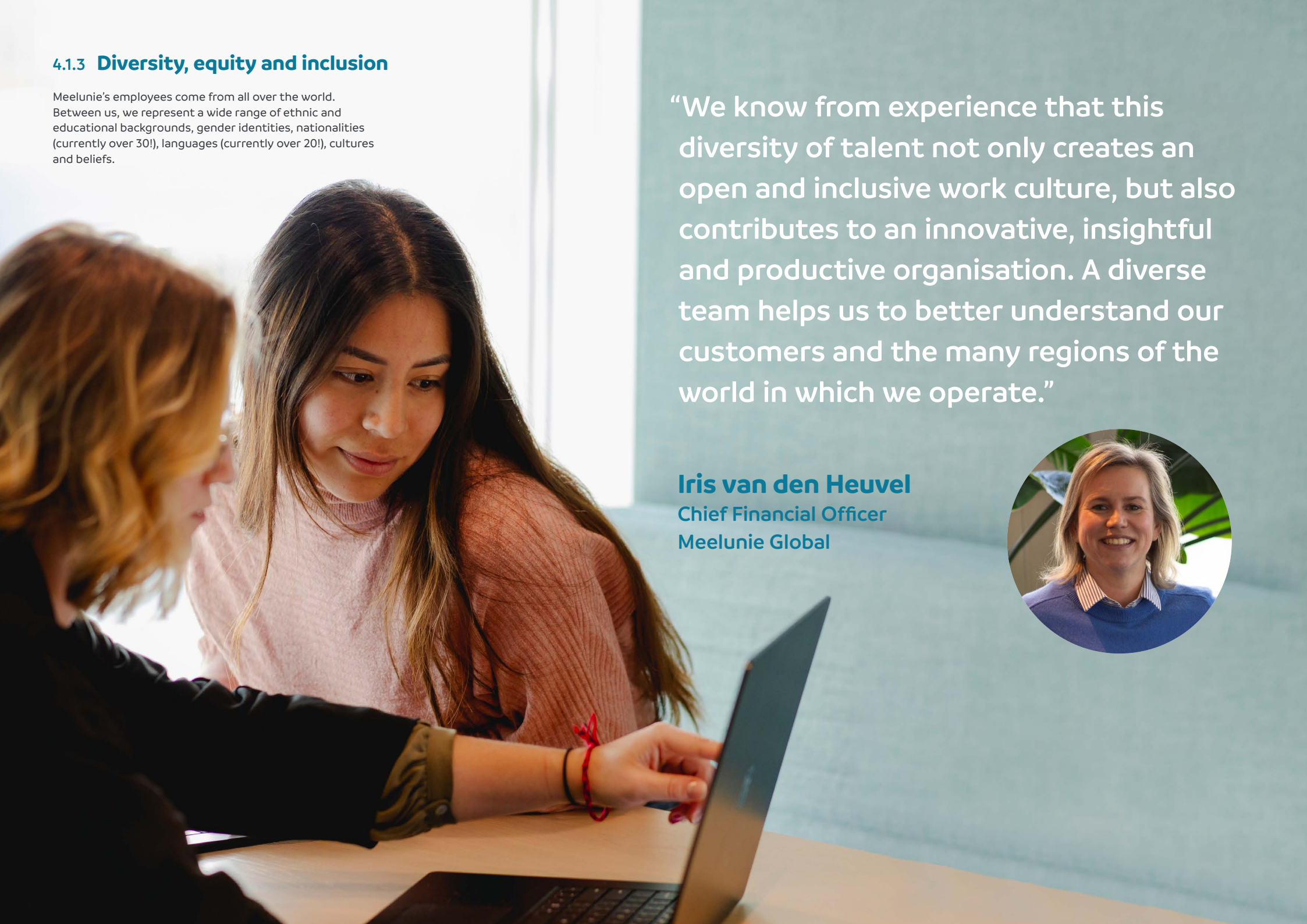


### 4.1.3 Diversity, equity and inclusion

Meelunie's employees come from all over the world. Between us, we represent a wide range of ethnic and educational backgrounds, gender identities, nationalities (currently over 30!), languages (currently over 20!), cultures and beliefs.

“We know from experience that this diversity of talent not only creates an open and inclusive work culture, but also contributes to an innovative, insightful and productive organisation. A diverse team helps us to better understand our customers and the many regions of the world in which we operate.”

**Iris van den Heuvel**  
Chief Financial Officer  
Meelunie Global





# Green Products

## 100% PLANT BASED



### Ambition

It is time to rethink how we grow, share and consume our food. At Meelunie, we are committed to ethical business practice, decent conditions for workers throughout the supply chain, and a focus on responsible products and processes. We want to accelerate the protein transition so that more diets include plant-based ingredients, and become nutritious and healthy. If done right, agriculture can provide food for all and generate decent incomes, while supporting people-centered rural development and protecting the environment.. We also invest in sustainable processing techniques, and provide organic and non-GMO ingredients that benefit local biodiversity.

### SDGs

#### SDG 2 Zero Hunger

We strive for accessibility in food distribution to create healthier individuals, families and communities.



#### SDG 12: Responsible Consumption and Production

We translate our customers' desires into high-quality, plant-based ingredients that nourish and protect.



### Impact areas

- Community (value chain);
- Environment;
- Customers.

### Achievements

- Redefined our green products domain;
- Inspired by a Forkrangers workshop, strengthened our company profile with regard to our role in the protein transition (see chapter 2);
- Developed expertise on the environmental impact of protein sources;
- Added the Non-GMO Project to our Green Products domain; (see next page);
- Built a sustainable fava bean proteins factory in Denmark;
- Began fava bean ingredients development, creating 15 recipes;
- Contracted Blonk to complete an LCA of our fava bean products;
- Defined why our fava bean value chain is sustainable;
- Updated our Supplier Code of Conduct;
- Continued to research ways of automating QA and sustainability requests of customers.

### Lessons learned

- LCA studies are complex and require specialised skills to measure;
- Comparing LCAs of different products is challenging;
- The whole industry needs to play its part if we are to accelerate the protein transition.

### Next steps

- Keep account of the carbon footprint for our product portfolio
- Invest in solutions for protein concentrate to make it a more suitable alternative in food applications;
- Communicate carbon footprint of fava bean ingredients on packaging;
- Research impact on (local) biodiversity and rural development;
- Develop a sustainable customer journey.



#### 4.2.1 Organic & non-GMO

Our non-GMO ingredients are cultivated without the use of genetically-modified seeds or organisms, and our products are certified by The Non-GMO Project.

Taking things a step further, we offer organic-certified ingredients, certified by SKAL and OTCO. These organic ingredients are grown and processed without the use of synthetic pesticides, fertilisers or GMO, which benefits local biodiversity.

"Do you know the saying 'The proof of the pudding is in the eating?'. Well, we believe those statements capture what it's really all about: Our customers know us. We've been celebrating and sharing earth's goodness since 1867. And through the decades, we've always maintained integrity in how we do things."

**Jan van Vilsteren**  
General Manager  
Meelunie America



# Climate & Shipping

TOWARDS NET ZERO



## Ambition

Our products are shipped globally and this has an environmental impact. We need to step up our efforts even further in reducing this impact. We do this with partners who calculate and reduce our environmental footprint. This involves facilitating fuel switches, exploring intermodal transportation and adopting low- or zero-emissions solutions. We aim to engage our customers by including carbon footprint information with each contract in order to grow awareness. All our initiatives are focused on achieving our ultimate ambition: a net-zero value chain.

## SDGs

### SDG 13 Climate Action

We commit ourselves to reducing our environmental impact, both within our organisation and in the value chain.



## Impact areas

- Environment;
- Customers.

## Achievements

- Renewed partnerships with BigMile, CarbonLeap and FairClimateFund;
- Integrated BigMile CO<sub>2</sub> calculator into our ERP system, including pre- and on-carriage, and all modalities; (see section 4.3.3 for fuel switch timeline);
- Hosted Round Table session for BigMile to discuss carbon accounting with other shippers;
- Researched with BigMile and CarbonLeap how to allocate carbon data (scope 3) through the value chain; (see section 4.3.3 for fuel switch timeline);
- Updated Climate Strategy (see next page).

## Lessons learned

- Engaging supply chain partners is challenging;
- We need collective effort and investments of supply chain partners to drive our scope 3 reductions.

## Next steps

- Reduce scope 1 and 2 as defined in our Climate Strategy;
- Make the outcomes of the BigMile CO<sub>2</sub> calculator more accessible, and start cooperation with customers to reduce and compensate carbon footprint;
- Provide customers with data on supply chain partners' carbon footprints.



### 4.3.1 Climate Strategy

In 2020, Meelunie began monitoring scope 1 & 2 carbon emissions, as part of our efforts to help protect the environment. This led to a Climate Strategy, based on the Greenhouse Gas Protocol. According to this standard, companies must account for and report all their scope 1 & 2 emissions (see table for scope definitions). At Meelunie, we also measure a part of our scope 3 emissions.

Note our scope 1 & 2 emissions will increase significantly once our fava bean proteins factory goes into production during 2024.



#### Scope 1

Direct emissions from company facilities and vehicles.

43.2 mt CO<sub>2</sub>e



#### Scope 2

Indirect emissions from purchased electricity for own use.

94.7 mt CO<sub>2</sub>e



#### Scope 3

Indirect emissions from our business operations and our value chain



#### Business Operations

Indirect emissions, mainly from employee mobility.

262.3 mt CO<sub>2</sub>e



#### Value chain

Indirect emissions from our cradle-to-gate value chain.

Logistics:

41K mt CO<sub>2</sub>e\*

Products:

>80% mt CO<sub>2</sub>e\*\*

#### Green Building Standards:



Amsterdam: BREEAM



Chicago: ENERGIE STAR



Shanghai: LEED Gold



Singapore: GREEN MARK GoldPlus

Emissions calculated in CO<sub>2</sub> equivalent (CO<sub>2</sub>e), a metric measure used to compare emissions from different greenhouse gases.

\* New calculation method of BigMile.

\*\* We have made a start with an analysis, but we estimate that >80% of our scope 3 emissions are in our products.

## 4.3.2 Goals within reach

### Scope 1 & 2: Own Organisation

The scope 1 & 2 emissions figures are based on our own data plus emission factors from CO<sub>2</sub>emissiefactoren.nl and CarbonCloud, and have been officially validated by PW Advies. Our location-based emissions were 137.9 mt CO<sub>2</sub>e (down 3% on last year).

We have compensated 3,237 mt CO<sub>2</sub>e via FairClimateFund, making Meelunie a carbon-neutral organisation by compensation. Since 2019 we have, together with FairClimateFund, been investing in climate and social impact projects that generate carbon credits for carbon compensation.

### Scope 3: Business Operations

Our scope 3 business operations emissions (measured using the same methodology as our scope 1 & 2 emissions) were 262.3 mt CO<sub>2</sub>e (up 17% on last year). This increase can be explained by a growth in FTE and an increase in travel due to catch-up partner visits following COVID-19. In response, we have updated our Business Travel Awareness Guide to help colleagues make conscious decisions about whether to fly or not. These emissions have also been compensated via FairClimateFund.

As staff now work partly from home, we have also updated our Home Office Awareness Guide to promote environmentally-friendly practices not only in the office but also remote work settings.



	Definition	Amsterdam	Hedensted	Detroit	Chicago	Queretaro	Shanghai	Singapore	Melbourne	Total	Benchmark
Scope 1	Heating	-	0.7	15.0	6.9	-	1.7	-	1.2	25.5	▲ 11%
	Fuel combustion	6.9	-	-	6.2	2.6	-	2.0	-	17.7	● 0%
	Total scope 1	6.9	0.7	15.0	13.1	2.6	1.7	2.0	1.2	43.2	▲ 8%
Scope 2	Office	27.2	0.9	43.9	14.5	0.6	3.7	0.8	-	91.6	▼ -4%
	Lease cars	3.1	-	-	-	-	-	-	-	3.1	▼ -48%
	Total scope 2	30.3	0.9	43.9	14.5	0.6	3.7	0.8	-	94.7	▼ -7%
<b>Total scope 1 + 2</b>		<b>37.2</b>	<b>1.6</b>	<b>58.9</b>	<b>27.6</b>	<b>3.2</b>	<b>5.4</b>	<b>2.8</b>	<b>1.2</b>	<b>137.9</b>	▼ -3%
Scope 3	Air travel	117.4	4.1	17.8	13.8	3.0	27.9	9.6	1.5	195.1	▲ 37%
	Rail travel	0.4	0.1	-	-	-	0.4	-	-	0.8	▲ 13%
	Employee commuting	19.3	10.9	17.6	12.5	0.9	-	-	-	61.2	▼ -21%
	Waste, water and paper	2.4	0.1	1.0	0.7	0.0	0.5	0.3	0.1	5.1	▲ 4%
	Total scope 3	139.5	15.2	36.4	27.0	3.9	28.8	9.9	1.6	262.3	▲ 17%
<b>Location based emissions (mt CO<sub>2</sub>e)</b>		<b>176.7</b>	<b>16.8</b>	<b>95.4</b>	<b>54.6</b>	<b>7.1</b>	<b>34.2</b>	<b>12.7</b>	<b>2.8</b>	<b>400.2</b>	▲ 9%
Renewable Energy Certificates		-30.0	-	-	-	-	-	-	-	-30.0	
<b>Market based emissions (mt CO<sub>2</sub>e)</b>		<b>146.7</b>	<b>16.8</b>	<b>95.3</b>	<b>54.6</b>	<b>7.1</b>	<b>34.2</b>	<b>12.7</b>	<b>2.8</b>	<b>370.2</b>	▲ 10%
Available offsets		-	-	-	-	-	-	-	-	3,237	
<b>Market based emissions (mt CO<sub>2</sub>e) after compensation</b>											<b>-2,866</b>

All data is rounded to one decimal point, meaning 0 mt CO<sub>2</sub>e is less than 0.05 mt CO<sub>2</sub>e.



"By neutralising all carbon emissions on our Rotterdam to Shanghai trade lane we're adding an additional dimension to the value of our Windmill products: from now on, by choosing Windmill, you're also choosing for a more sustainable future."

**Marvin Hu**  
General Manager  
Meelunie China



### 4.3.3 Value Chain Impact

Our largest impact is in scope 3 value chain emissions. In this section, we focus on logistics in our value chain. For more on the LCAs of our plant-based products, including farming and processing levels, see section 4.2 Green Products.

#### BigMile

Since 2022, Meelunie and BigMile have been strategic partners in assessing the carbon emissions of our logistics activities. Utilising BigMile's SaaS platform, we optimise and report our carbon emissions associated with multimodal transportation. These calculations are integrated into our ERP system, enabling us to report internally on carbon emissions per customer order or trade lane.

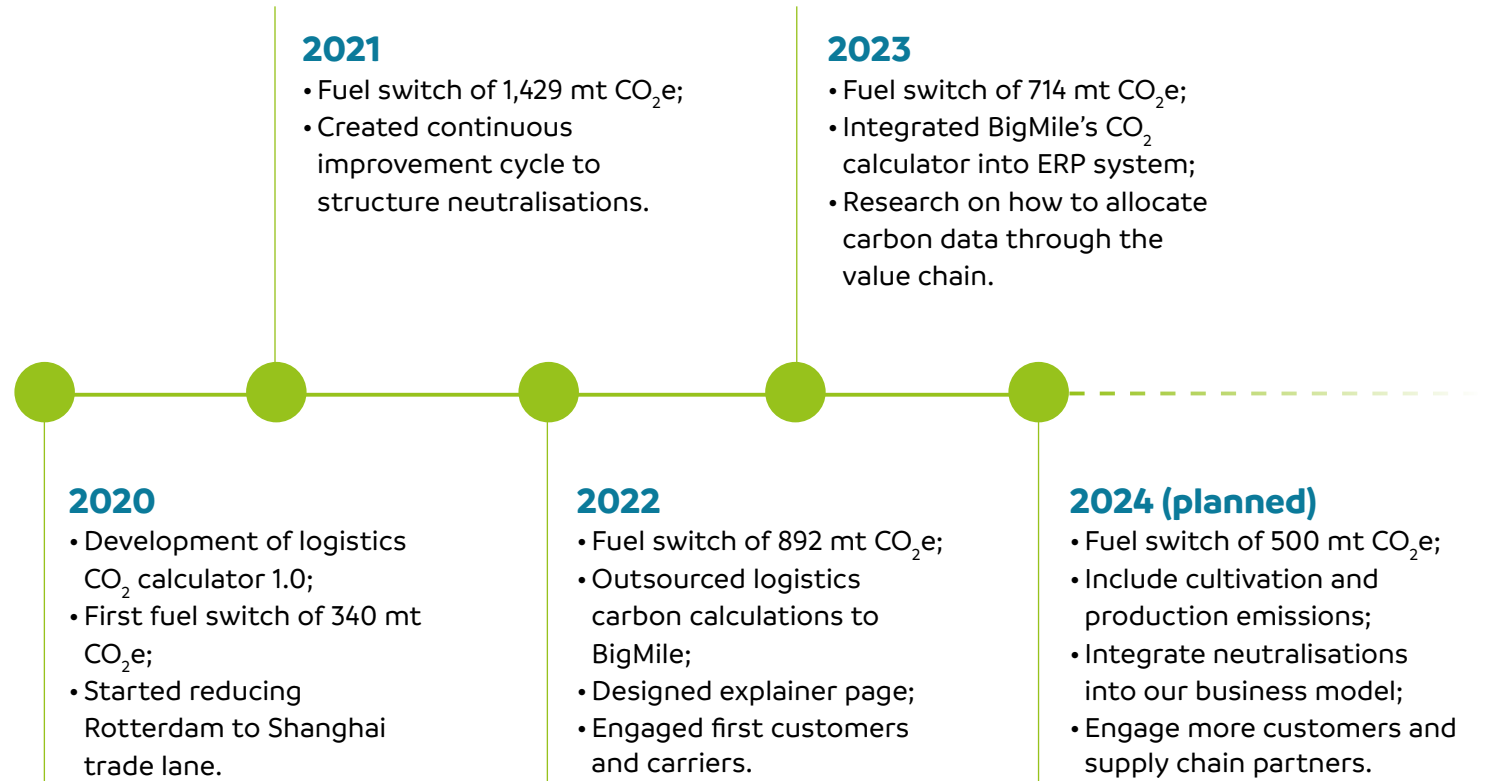
#### CarbonLeap

In collaboration with our partner CarbonLeap, we're making progress on fuel switching. CarbonLeap replaces fossil fuels with biofuels (e.g. used cooking oil) in sea freight, thus decarbonising a segment of Meelunie's scope 3 emissions. This reduces the emissions of ocean vessels but also valorises waste streams. This year we made a fuel switch of 714 mt CO<sub>2</sub>e. The reduction was applied to our Rotterdam—Shanghai trade lane, reducing its footprint from 338 mt CO<sub>2</sub>e to zero.

### 4.3.4 Future destinations

We intend to continue tracing our scope 1 & 2 emissions, reducing them where we can. We also want to foster enduring sustainability initiatives by connecting with our supply chain partners.

Together with BigMile and CarbonLeap, we're piloting innovative strategies to reduce emissions, with a specific focus on incorporating transportation carbon emissions and fuel switches into our core processes. The aim is to provide customers with comprehensive carbon data, including on fuel switch options. In addition, we are exploring modal shifts, through intermodal transportation options, and actively working to eliminate empty miles where feasible.



A woman with long dark hair, wearing a blue patterned shirt, is smiling and looking down at a young child with curly hair. The child is holding a green watering can with a pink body and is pouring water onto a small plant. The woman is holding the child's hands to help them. They are in a garden with various green plants and a metal trellis in the background.

# 5. Making Positive Impact Together





## 5.1 Responsibility

Set up in 2018, the Meelunie Positive Impact Team evaluates progress on Positive Impact initiatives each quarter. The 11 members come from different disciplines, departments, employee levels and offices, ensuring a true representation of the whole organisation. This team is guided by our Global Sustainability Manager Jeroen de Waaij. Meeting outcomes are monitored by and discussed with our executive committee, who have final responsibility. This process deepens the executive committee's understanding of sustainable practices and informs their decisions on sustainability-related issues. Our Chief Executive Officer Marco Heering has responsibility for CSR within Meelunie and our value chain; our Chief Innovation Officer Gijs van Elst for our fava bean proteins factory, which will have a large impact once opened in 2024. In 2022, to consolidate our commitment to Positive Impact, Meelunie amended its articles of association to formally commit to using our business as a force for good.



"What a wonderful experience being on this team, collaborating across offices. I've been a member since 2020, and it's exciting to see the changes we've made in that time, as well as the many important milestones we're still working towards. I'm thrilled to be playing my part in helping Meelunie move towards a greener future!"

**Raisa Lenau**  
Positive Impact Team Member

## 5.2 Risk Management

Risk management is a critical focus for the executive committee. This includes the materiality topics mentioned in section 3.1 Double Materiality. It starts with taking responsibility for and acknowledging our impact as an organisation. For example, the materiality of climate change will affect our sourcing regions, and consequently our products. .



## 5.3 Looking Ahead

Against the background of developments described in this report, we are confident our Plant Based Positive Impact strategy is strengthening our fundamentals: growth through value creation within our value chain and the evolution of our portfolio. We will also be preparing for our upcoming B Corp audits and CSRD. And we will continue to work with and seek partners who share our positive impact ambitions.

A close-up photograph of hands holding soil and a small green plant seedling in a garden setting. The hands are positioned in the foreground, with one hand holding a clump of dark, rich soil and the other supporting a young plant with several green leaves. The background is a soft-focus garden with various green plants and a yellow watering can. The overall scene conveys a sense of care and environmental stewardship.

"Plant-Based Positive Impact is more than an add-on. It's a whole way of thinking, working and even living. It's about the sustainable mindset that we embrace as an organisation. And it helps us make conscientious decisions, and integrate environmental and social considerations into our everyday risk management"

**Michael Rots**  
General Manager  
Meelunie Asia-Pacific





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## Colophon

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