

# Who is participating......

Magdalena Borzęcka



Miroslaw Korzeniowski, PhD

AGROEKOTON Association Sustainable Horticulture Core Team, Team Leader



Mario Steta

Director of Operations
Driscoll's EMEA



You



IBO SUMMIT 2023 Lublin, 3-6 July 2023



IBO SUMMIT 2023 Lublin, 3-6 July 2023

#### **ETHICS**

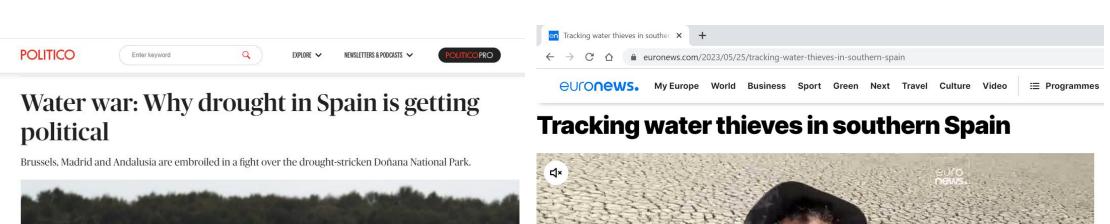
John D. Rockefeller Industrialist (1839-1937)

"Next to doing the right thing the most important thing is to let people know you are doing the right thing"

RISK

Warren Buffett Investor (1930- )

"Risk comes from not knowing what you are doing"





IBO SUMMIT 2023 Lublin, 3-6 July 2023



# Controlling the weather to tackle global warming demands regulation, says EU

ALICE HANCOCK - BRUSSELS

A contested technology that involves manipulating the weather to fight climate change has appeared on the radar of EU regulators for the first time.

The European Commission will call for international efforts next week to assess "the risks and uncertainties of climate interventions, including solar radiation modification" and for research into how to regulate it globally, according to a draft seen by the Financial Times.

The statement will be the first time that a national or regional governing

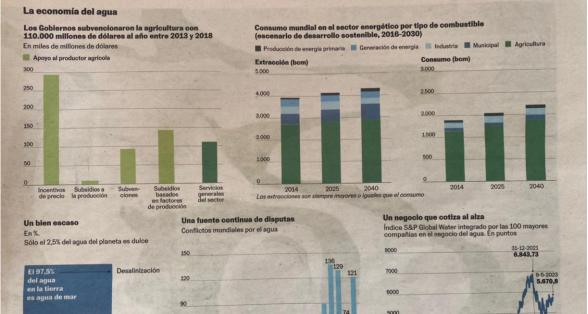
aerosol injection, which involves flying a plane 20km-25km above the Earth shooting out micron-sized particles that reflect the sun.

Aircraft able to carry such loads at that height have not yet been built and the process would have similar results to volcanic eruptions, which can lead to temporary global cooling. Other methods being researched include thinning cirrus clouds to allow more infrared rays out and launching sunshades into space.

The EU document, which is not legally binding and could change before publication, shows the extent of concern that humanity will not be able to encompasses different techniques for adjusting the sun's rays — the UN Environment Programme described the technology as the "only" way to cool the planet in the short term.

However, the authors warned, several factors including costs that could run into "tens of billions of US dollars per year" made large-scale deployment "unwise"

Interfering in the globe's natural climate could damage the ozone layer, lead to geopolitical tensions and, if suddenly stopped, cause a sudden recurrence of global warming that would be more dangerous, the report warned.



#### **PORTUGAL - ZAMBUJEIRA**

**AMBIENTE** 



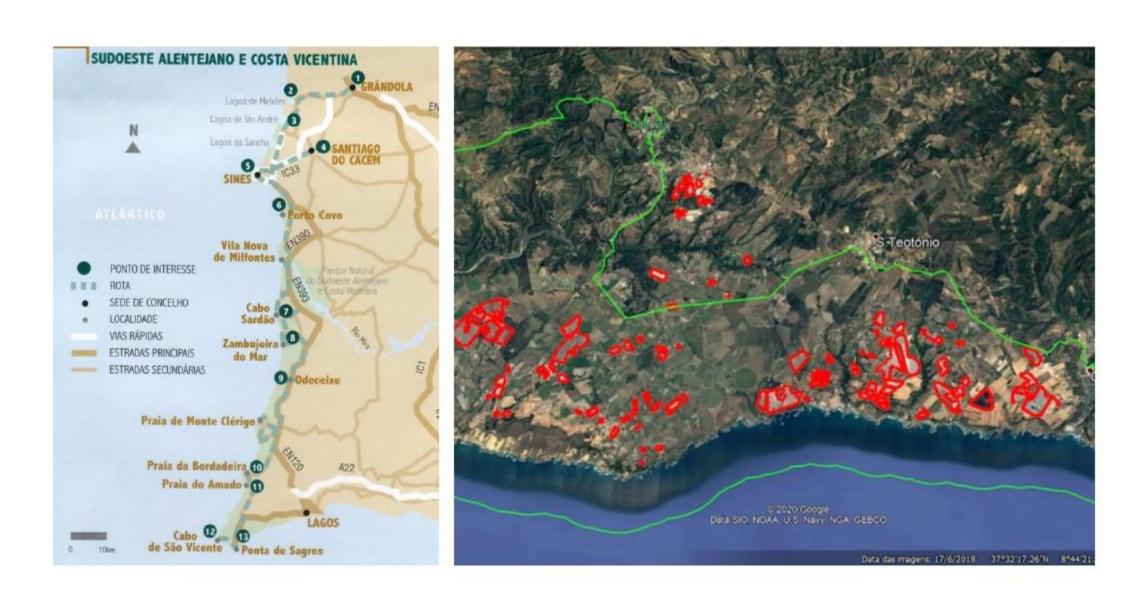
SOURCE: https://www.publico.pt/2023/05/13/azul/noticia/imensidao-habitats-costa-sudoeste-alentejano-coberta-plastico-2049454

Greenhouses by the coast in Alentejo, Portugal [Marta Vidal/Goncalo Ribeiro/Al Jazeera] SOURCE: https://www.aljazeera.com/features/2022/10/11/agribusiness-depletes-soil-water-resource-in-portugals-alentejo

#### Case study from University of Utrecht

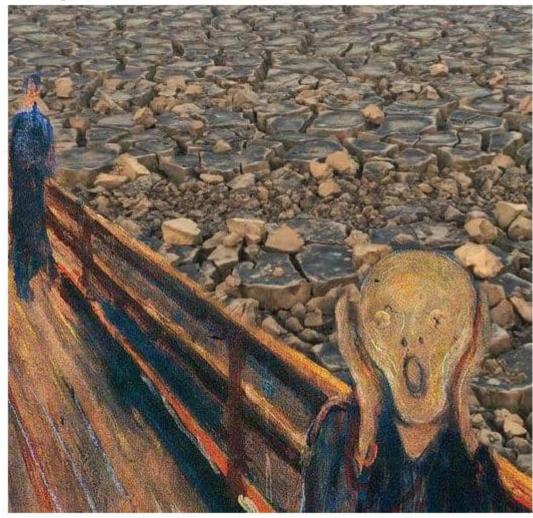
Assignment 4: Interviews Parque Natural do Sudoeste Alentejano e Costa Vicentina (PNSACV)



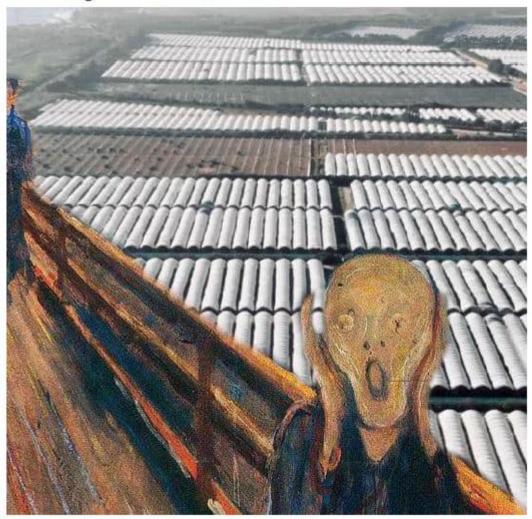


IBO SUMMIT 2023 Lublin, 3-6 July 2023

Drought in the Sado and Mira basins



Red fruit greenhouses at PNSACV



Juntos pelo Sudoeste, Facebook page, 2023

IBO SUMMIT 2023 Lublin, 3-6 July 2023



The berry/avocadoes/olive oil demand have transformed Portugal as plantations have sprung up in recent years.

The berry market has particularly transformed Portugal due to its intensity. An already dry region is quickly using up its water supplies.

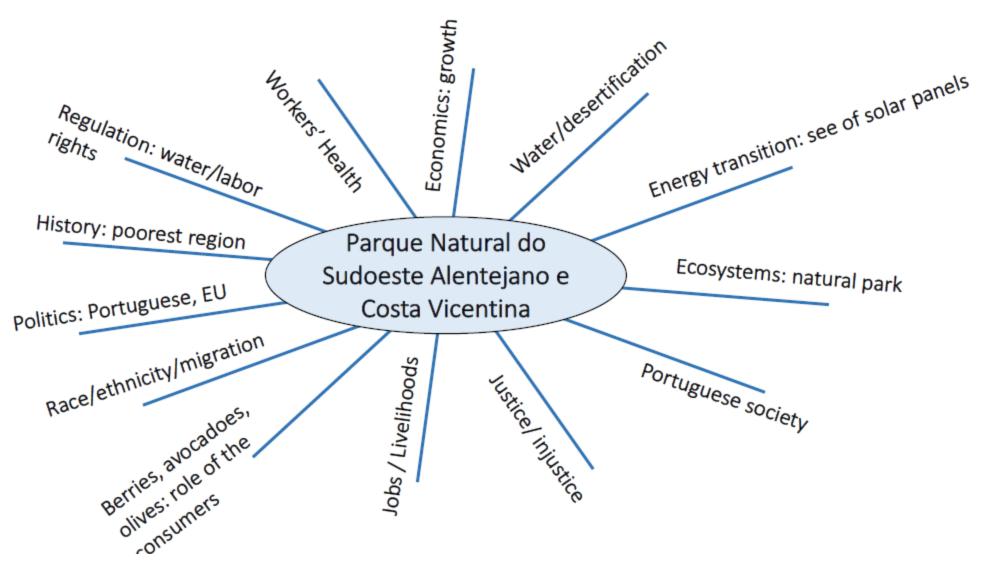
Conditions for workers are problematic: There are large amounts of temporary labor available to help in the farming (packing also creates jobs).



The Santa Clara reservoir is drying up. Some 90 percent of the water is used for agriculture, but it is rapidly emptying out.

Foto: Gonçalo Fonseca / DER SPIEGEL

#### What issues do you see in this case?



IBO SUMMIT 2023 Lublin, 3-6 July 2023

# Some thoughts and questions

From Food Safety
.....to Social Compliance
.....and now Environment

Sustainability cannot be approached as a competitive advantage, other than maybe market/consumer positioning

The frequent argument about what is more or less sustainable: How do we measure the impact?

# Some thoughts and questions

- What is Sustainability?
- Is it about us? Impact of the horticultural industry
- But.....do we really understand our own impact?
- What are the implications?
  - ✓ Policy
  - ✓ Legal? Example of no single use plastics; no drain water in NL by 2026
  - ✓ Consumers?
  - ✓ Do what is right?
- Who is acting? Some examples
- What should IBO and its members commit too?

# What is "Sustainability"

#### From Oxford:

- The ability to be maintained at a certain rate or level ("the sustainability of economic growth")
- Avoidance of the depletion of natural resources in order to maintain an ecological balance ("the pursuit of global environmental sustainability")

#### • From the UN:

- In 1987, the <u>United Nations Brundtland Commission</u> defined sustainability as "meeting the needs of the present without compromising the ability of future generations to meet their own needs."
- University of California Los Angeles:
  - In the <u>charter</u> for the UCLA Sustainability Committee, sustainability is defined as: "the integration of environmental health, **social equity** and economic vitality in order to create thriving, healthy, diverse and resilient communities for this generation and generations to come. The practice of sustainability recognizes how these issues are interconnected and requires a systems approach and an acknowledgement of complexity."

- We can all agree it is about resources:
  - Water
  - Soil, substrate
  - Biodiversity
- Pollution (pesticides, plastics, greenhouse gas emissions, etc)
- Is it about using less only?
- About using "organic" tools into "conventional" production
- What about being sustainable meaning "doing more berries....blueberries....with les resources"
- It is about people

## 'Envejece' la mano de obra del campo mexicano

In 2022 29.3% of agricultural workers were over 65 years in Mexico

Nallely Hernández Cd. de México (06 junio 2023).-05:00 hrs



IBO SUMMIT 2023 Lublin, 3-6 July 2023



#### **SOUTH OF SPAIN - ALMERIA**



IBO SUMMIT 2023 Lublin, 3-6 July 2023

#### **PORTUGAL - ZAMBUJEIRA**





#### **PORTUGAL - ZAMBUJEIRA**





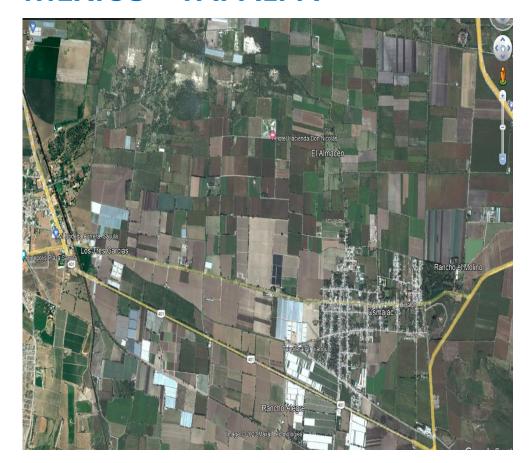


#### **MEXICO – CIUDAD GUZMAN**





#### **MEXICO - TAPALPA**





# So....do we really understand our own impact?

#### • Water:

- Do we verify the validity/legality of concesions and well permits?
- Do we truly understand our acquifers
- Do we meassure consumption?
- How many of us are recirculating?
- What about erosion control?

#### Plastics:

- Do we follow disposal and/or re-cycling of tunnels and ground covers?
- Soil vs hidroponics
- Support of biodiversity: are we allocating land reserves?
- Are we working properly with Government, Industry and NGO's to reduce impact?

# So what are the implications?

## Certifications

(Food Safety, Social and Environment)

## Overview of requirements & costs

Topic	Requirement	Customer, Region	Grower cost	Frequency
FS	GlobalG.A.P. audit	All - mandatory	390,4€ to 1345€	Annual
FS	Pesticide analysis, water quality analysis	All - mandatory		Pre- harvest, during harvest
FS	Water assessment & Food Safety audit	M&S, Waitrose (UK)		During harvest
FS	Tesco Nature audit addon to GlobalG.A.P.	Tesco (UK)	197,5 €	Annual



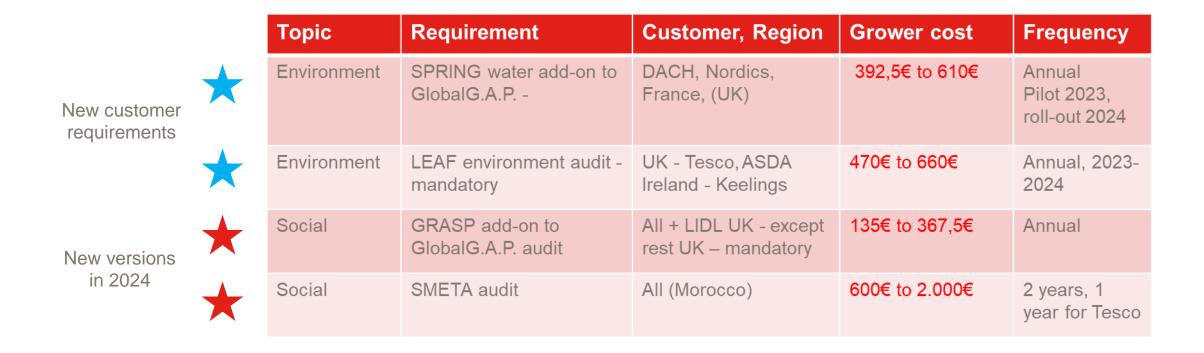


	Topic	Requirement	Customer, Region	Grower cost	Frequency
*	Social	GRASP add-on to GlobalG.A.P. audit	All + LIDL UK - except rest UK – mandatory	135€ to 367,5€	Annual
	Social	Sedex registration	UK (Iberia), all customers (Morocco)	approx. <b>150</b> €	Annual
	Social	Sedex Self Assessment Questionnaire (SAQ)	UK (Iberia), all customers (Morocco)		6 months
*	Social	SMETA audit	All (Morocco)	600€ to 2.000€	2 years, 1 year for Tesco
*	Social	Grievance system	Germany	TBD	2023 Iberia, 2024 Morocco

New customer requirements

X
<b>A</b>

Topic	Requirement	Customer, Region	Grower cost	Frequency
Environment	SPRING water add-on to GlobalG.A.P	DACH, Nordics, France, (UK)	392,5€ to 610€	Annual Pilot 2023, roll-out 2024
Environment	LEAF environment audit - mandatory	UK - Tesco, ASDA Ireland - Keelings	470€ to 660€	Annual, 2023- 2024
Environment	Docuagro water legality reports	Internal (PT), UK, Nordics, DACH (ES)		Risk based
Environment	GHG emissions reports	Tesco – not yet mandatory	(Data collection)	Annual
Environment	GHG emissions reports	Internal	(Data collection)	2027, annual
Environment	Plastic waste information	Internal	(Data collection)	One-off
Environment	Other ad-hoc or annual customer questionnaires	UK, DACH, Nordics	(Data collection)	



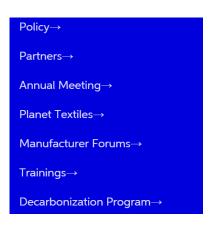
# ORGANIZATIONS/SECTORS THAT ARE AN EXAMPLE ON COORDINATED EFFORTS ON SUSTAINIBILITY



#### **TEXTILE INDUSTRY**

The Sustainable Apparel Coalition (SAC) brings together more than 280 global brands, retailers, manufacturers, NGOs, academics and industry associations along the whole supply chain, representing about half of the apparel and footwear industry. The SAC is deeply committed to creating a more sustainable, equitable, and just world for all through collective action efforts that enable positive social and environmental impact at scale.





SOURCE: https://apparelcoalition.org/



## **About Us**

The Sustainable Rice Platform (SRP) is a global multi-stakeholder alliance comprising over 100 institutional members from the public, private, research, civil society and the financial sector. SRP is registered as a not-for-profit member association working to transform the global rice sector by:



Improving smallholder livelihoods



Reducing the social, environmental and climate footprint of rice production



Offering the global rice market an assured supply of sustainably produced rice to meet the growing global demand for rice.

SOURCE: https://sustainablerice.org/







"The partnership between FAO and the food company El Ordeño offers a new generation of sustainable food products, aimed at responsible consumers who care about of the origin of their food, with positive socio-economic and environmental effects".

"Public-private partnerships have shown that they can positively influence production and consumption patterns with a rights and sustainability approach, promoting the development of a country".

SOURCE: https://www.fao.org/news/countries-good-practices/article/en/c/1381459/



Project that created **Farmer Field Schools** that provide agricultural advisory services, helping smallholder farmers in particular, acquire new skills and knowledge and to become more resilient to climate change and other challenges in their communities or ecosystems.



SOURCE: https://www.fao.org/news/countries-good-practices/article/en/c/1641502/

SUSTAINABILITY

## **Sustainability Tools**

In partnership with industry leadership, has identified sustainability as a critical focus area for the produce and floral industries.



IFPA HOME > RESOURCES > SUSTAINABILITY > SUSTAINABILITY TOOLS

Sustainability is inherent in much of what we do, and as the original stewards of the land – we are uniquely positioned to provide leadership across many industries over the globe. One of the most direct ways to immediately make this impact is to recognize the transformative efforts happening in the industry and communicate it to various audiences. A powerful sustainability story can inspire others looking to implement practices of their own; convince potential or existing organizations to collaborate or partner; and educate various audiences (including consumers) on the importance and impact of sustainable practices.

# WHAT SHOULD IBO AND ITS MEMBERS COMMIT TO AND HOW?

Machine harvesting experimentation – from equipment design, to varieties, some robotics, and new glowing bediniques is underway across the developed world, but remains a divisive topic with regards to the quality consistency angle the industry is stribing for. However, most growers turning to this bureasting techniques are doing so because they have to and not necessarily because they want to, and in the short-term at least it is all, unclear to what degree its adoption will impart volumes of marketable fresh fruit due to builsing, damage, and reduced shelf life. There is a conscisus among leading breeders and growers that successful machine horvesting for tresh will likely involve technology, equipment, variories, and folds design that are not in commercial use today.

#### Environment, Social and Governance (ESG)

Almost anywhere you go, something has changed in the weather conditions that affect bluebeiny production. Arrwars who planned particular varieties urgetting next in production windows are finding their plans disregard by variable weather conditions, which come in many forms. It could be warmer winter speak that induce bloom before a cold snap his the plants, reducing fruit yields; more frequent reins during fourest that didn't used to happen 10 years ago; increased post pressures due to weither temperatures or unscassional rain; in creasingly earlier increased due to warmer weather; or drought which is a pressing concern in many regions throughout the world, leading to increased utilisation of description plants for dry, oceate, farms.

Climate change, climatic unpredictability, and the increased frequency of intense weather exerts that comes with it, with undoubtedly have an impact on the busebeny industry at a production level. This will shape the kind of approaches growers take when I comes to crop presection, growing structures to protect against the elements, and varietal selection. Given the kigh cost of decalination and the role southern highboth bluecomies in warmer, drive environments have played in the industry's recent growth, the search for drought-hardy attached with the ball of a consideration in the future.

Emironment, Social and Sovernance (ESG) is an increasingly important feature of doing business, and more than ever supprimarisets are scrittinized by consumers and investors regarding their credentials in this nomplex and huanced crems of disparate subjects that are difficult to measure. In order to reduce allowic waste, there is a growing push to ensure the recyclebility of packaging, and as traferenced in the Western and Certra. Europe section, nountries ston as France push to phase out single-use plastic packaging altogether for firsh sales including blueberries within a few years. This kind of legislation anoth tymay have implications for the current busberry business model of balling in clambels, which to date have proven the best way to conserve blueberry shell life and visual apposit; with the cost of timber on the rise, a shift to cardinard cartons won't be cheap either.

Today's consumer cares much more about the supply chain of what they ear, and the impact of their purchasing doc alons on the world. This is why retailors — especially in Europe — are of definanting in terms of social certifications, and blueberry growers worldwide are meeting those stricter requirements.

It is against this backdrop that blueberry growers now have yet another challenge. They don't just have to be profitable and survive in an increasingly competitive landscape, but they must also demonstrate social capital. What are they doing to help the communities where they operate? What are their protocols in environmental stewardship and the protoction of biodiscrator.

Efforts are underway, perfoutantly in North America and Eurode, to reduce the use of pushic packaging in blueterries. Meanwhite some companies and whole industries are also luming their attention to their carbon feotprint.

Bluebonnes are a very labor-intensive crop, directly generating a livedineed for hundreds of thousands of people world-ing a livedineed for hundreds of thousands of people world-wide and with an indirect conomic impact of numbers of diseaseds or more. From harvest workers, to packhouse employees, to all of the people who service the sorting and all of the indirecties in regional areas where if indirect workers and staff spend their earnings. Schools, health ourses, chemical run-off miligation schemes, sound environmental planning, and vocational training for local populations are all ways that the blueberty industry is making a positive contribution, illustrating its long-term benefits not just for the health and well-beling of consumers, but the communities where the fruit to grown as well.

# Environmental, Social, and Governance (ESG)

In today's business landscape the demonstration of Environment, Social and Governance (ESG) credentials is multi-faceted, and has become increasingly pertinent to maintaining a mandate to operate in the eyes of investors, partners, customers and consumers. ESG comprises a nuanced arena of disparate subjects that are difficult to measure, and where relativism abounds. Therefore, there is no prescriptive action that a grower, marketer, retailer or supplier must undertake in order to best address this responsibility. As a rule of thumb, a proactive approach to assessing the environmental and social impacts of operations — whether it be from packaging, transport, energy supply, agronomic practices, water usage, labor treatment or community engagement — is a good start, and where possible the execution of programs, activities or practices that will engender improvement. ESG is not just another narrative tool for marketing purposes; it requires being ahead of the curve and being transparent about a company or industry's efforts to make a positive difference, and its faults.

From a public reporting standpoint, one company that does a particularly good job of this is Australian fresh produce group Costa Group. With full disclosure of the fact the IBO president has spearheaded the growth of Costa's berry category, it is the unbiased opinion of this report's authors that Costa's 2022 Sustainability Report provides an excellent template that others may choose to follow. As highlighted in the comprehensive report made available on Costa's website, the company has taken guidance from the international Taskforce on Nature-related Financial Disclosures as a framework for addressing climate change risk and opportunities. For purposes of brevity, we could summarize key aspects reported as the calculation of water usage and greenhouse gas emissions across operations, outlining efforts to reduce water and carbon footprints in addition to waste, and appraisals of labor practices and community initiatives.

This report has previously included an ESG sub-header within the industry trends section, but upon stakeholder requests the decision was taken for this edition to establish it as a its own section in order to give the topic greater emphasis. There have been numerous contributions to this subject from the interviews undertaken with industry stakeholders (see Acknowledgments section), and we have also sought insights from the International Fresh Produce Association's (IFPA) director of sustainability, Tamara Muruetagoiena.

Aside from the issues of social responsibility and water footprint which have been and continue to be matters of concern, the three most prominent topics in ESG at the moment are packaging, climate change and regenerative agriculture, although the latter still requires