

Adapting to climate change - a 'fresh' perspective

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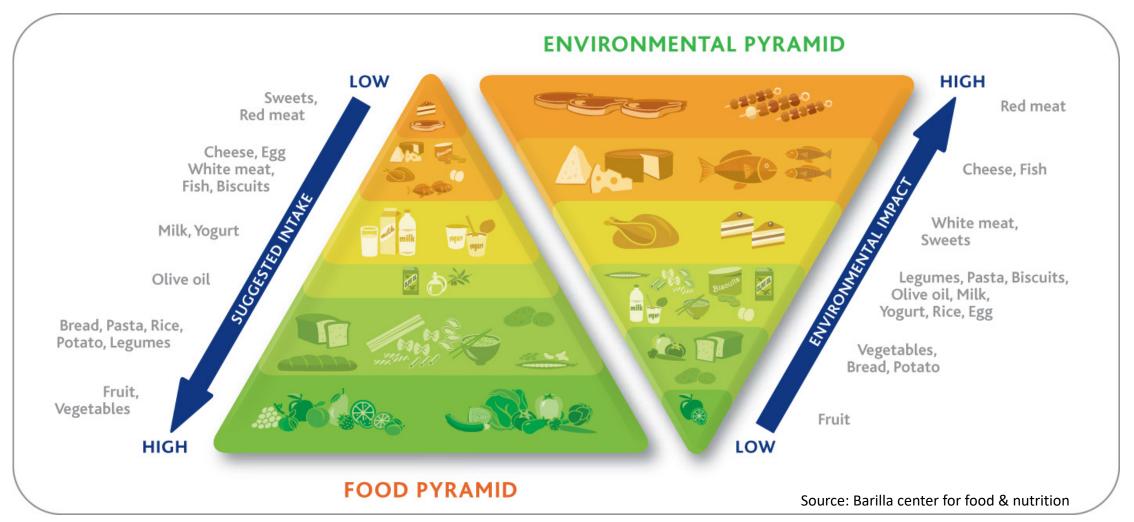
14 November 2019



for a healthier future

Let's start with the best news

PRODUCE IS THE MOST HEALTHY & SUSTAINABLE FOOD CATEGORY!





Our vision is "to make lives healthier by helping people enjoy fruit and vegetables at any moment, easy, fast and pleasurable, whilst fostering nature".



A global player in fruits and vegetables, active in all segments



- # 1 in Europe# 3 globally
- Sourcing & sales of Fresh F&V
- ≈ 5,700 employees
- 30 distribution centers
- Active in 20 countries



- # 2 in Europe
- Production & sales of Frozen F&V
- \approx 1,900 employees
- 10 facilities
- Active in 7 countries



- # 5 in Europe,# 1 in mushrooms globally
- Production & sales of Prepared F&V
- \approx 1,100 employees
- 3 facilities
- Active in 8 countries



Extreme weather events already affect our industry



Drought threat to EU processors

A sustained period of drought this summer has resulted in sharp declines in EU vegetable yields, leading to smaller, less regular deliveries to processors



Dry weather hits Greenery results

Extreme weather and increased competition are behind a drop in the Dutch company's yearly net proft





Climate change threat to veg

A study focusing on the impact of climate change on leafy greens, vegetables and legumes has highlighted the severe threat posed to yields if no action is taken



Weather hits Greenyard with €113m loss

First half of 2018 was one to forget for Greenyard who laboured in the sun under drought conditions and falling prices

Drought, debt battles push Costa Group into \$176m equity raising

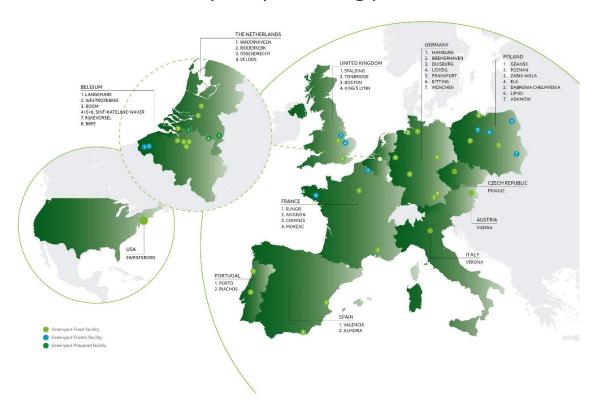
Fruit and vegetable giant Costa Group has unveiled a \$176 million equity raising at a deep discount to the company's most recent share price

October 28, 2019 by Darren Gray

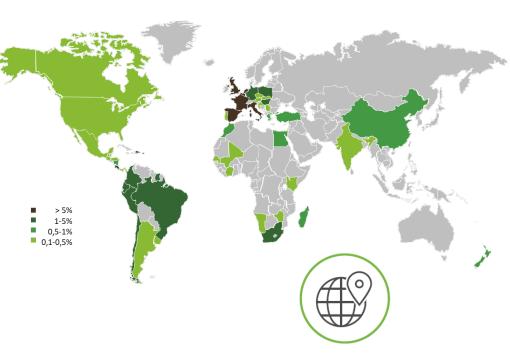


Geographical spreading as main mitigation tool

Footprint processing plants



Worldwide sourcing reach



Over 90 countries

constitute our sourcing base, as close as possible as far as necessary



Dealing with a fragmented supply base and a large variety in product categories

FROM SMALLHOLDERS PRODUCING SEASONALLY TO HIGH-TECH GREENHOUSES GROWING YEAR-ROUND







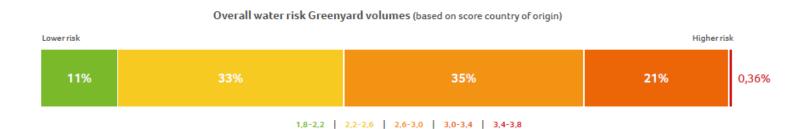
Over 4,500
growers & suppliers partner
with us both locally and overseas



Prioritising water stewardship as mitigation tool

FOCUS ON DROUGHT RESILIENCE AND SUSTAINABLE WATER USE

- Support producers and producer organisations
 - Investing in efficient irrigation systems (e.g. drip irrigation tests in onion production in Poland)
 - Investing in protective cropping (e.g. vertical farming trials)
- Provide training on efficient water management to smallholder farms overseas
- Supply treated wastewater (effluent) from our processing plants for irrigation where possible
- Understanding our water risk
 - Assessment of our grower base => 90% by 2022
 - Trials of water management audits on avocados in Chile and other countries



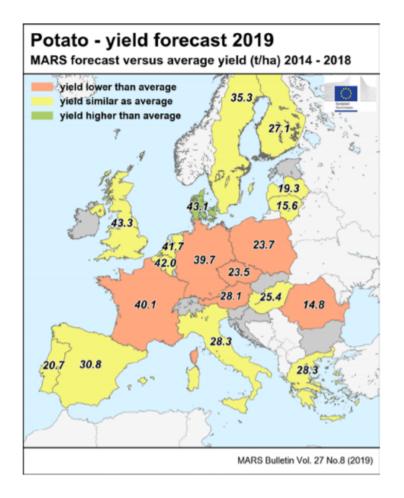




Short-term needs

FORECASTING TOOLS ADAPTED TO THE NEEDS AND REALITY OF THE HORTICULTURAL SECTOR





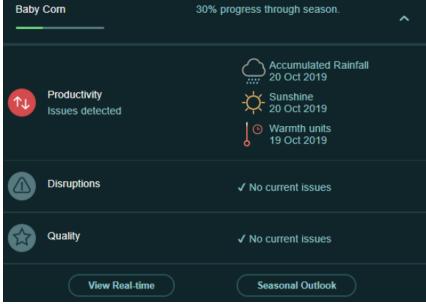


Short-term needs

FORECASTING TOOLS ADAPTED TO THE NEEDS AND REALITY OF OUR COMPANY

 Develop future agro farming management software connected to weather stations (+ drones/satellites) and multiple sensors including tensiometers for soil moisture monitoring to decide when and what practices to apply during the phenology of the crops





Source: AgriPulse

• Simplified tools to track crop progress worldwide and allow timely decision-making in terms of quality specifications, promotions, emergency sourcing



Long-term needs

STRATEGIC SOURCING OUTLOOK IN VIEW OF CLIMATE CHANGE



Decision-support tools to assess:

- Where will we source our products in 5-10 years from now?
 - Fruit (multi-annual trees) versus vegetables (annual crops)
- Where do we expand or build new processing plants?
 - Guaranteed water availability both for crops and factories



Thank you for your attention!

To make lives healthier





by helping people enjoy fruit and vegetables





at any moment, easy, fast and pleasurable





whilst fostering nature.





