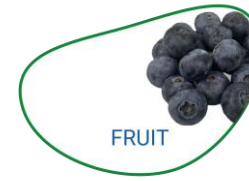


# PerfoTec's Complete Solution for Extending Freshness and Optimizing Quality of Fresh Produce and Flowers





## PerfoTec's goal

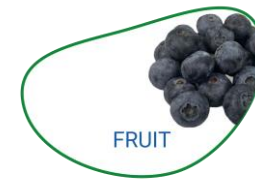
Reducing waste of vegetables, fruits and flowers

## How do we do that

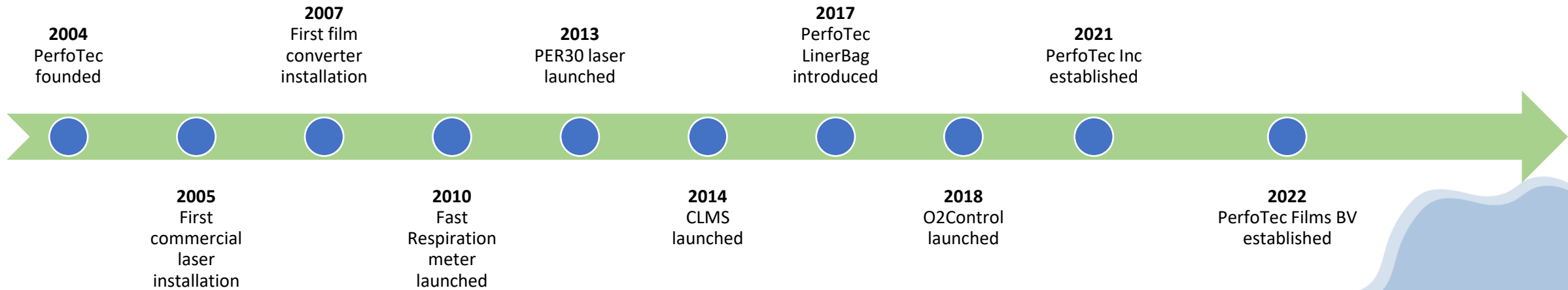
Developing and producing technology that extends the shelf life of vegetables, fruit, and flowers

## What we do

Making Modified Atmospheric Packaging machines and materials

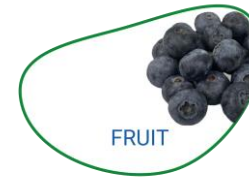


## PerfoTec history



**PERF)TEC**

**TESCO**



**SMIT'S UIEN**



**COSTCO WHOLESALE**



**Emmett**



**JUMBO**

Van Corp **Greenfood**



**les Crudettes**

**BRANSTON**



e-Flora

**HESSING**  
supervers

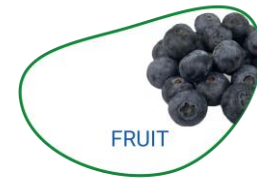


**Ahold**

**The Jersey Royal Company**

**Waitrose**

YOUR **M&S**



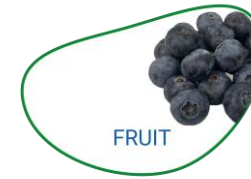
## PerfoTec worldwide

Installations on 6 continents

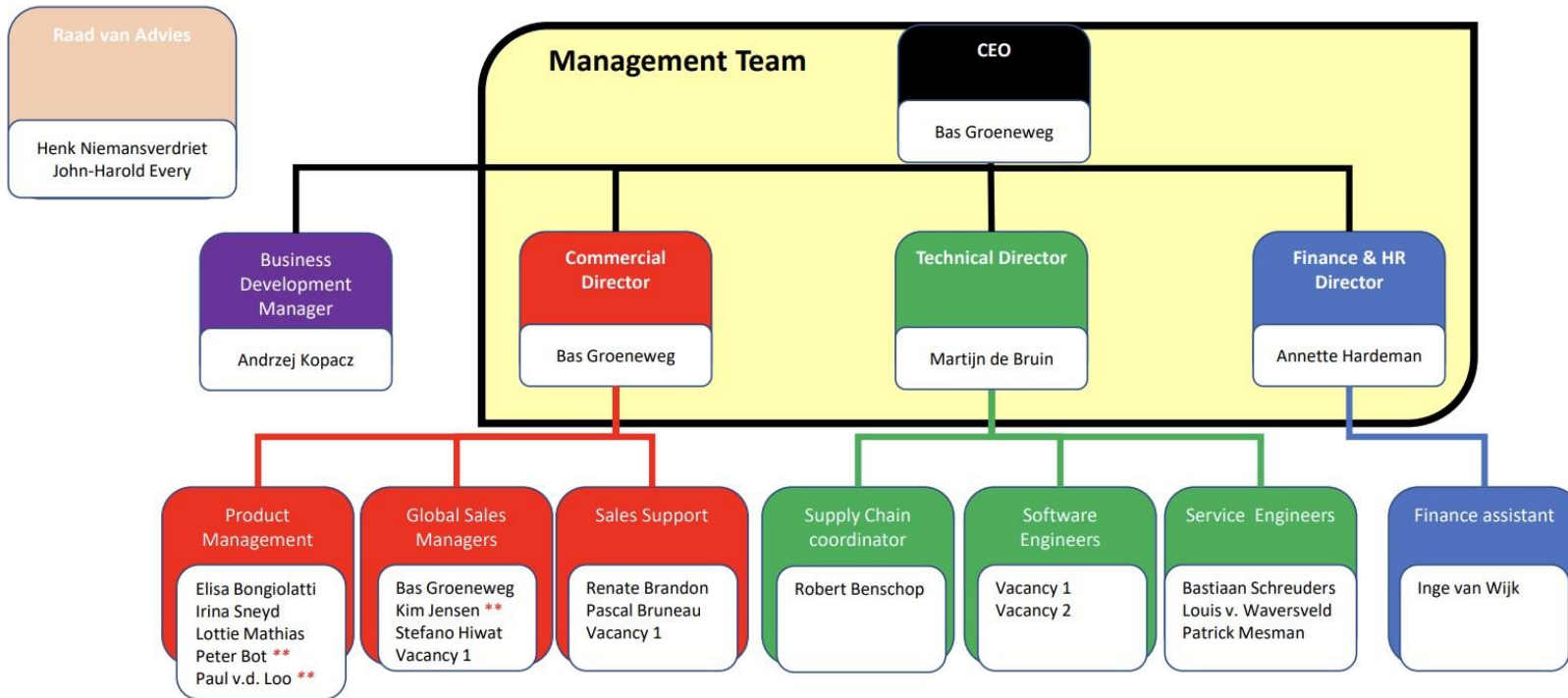
Agents and/or distributors on each continent

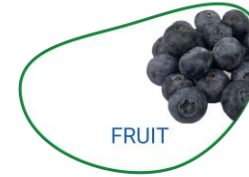
Installation in 40 different countries

Over 200 sites

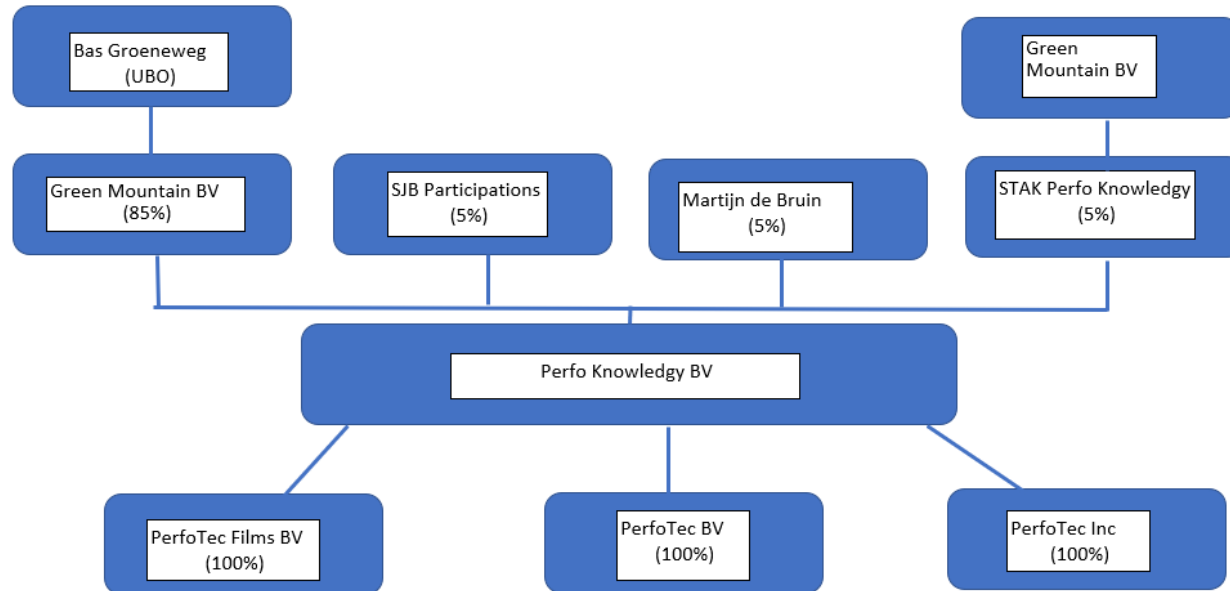


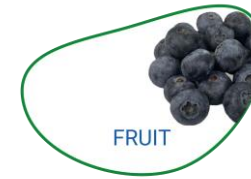
# PerfoTec's Team





## PerfoTec's Companies

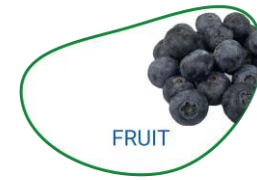




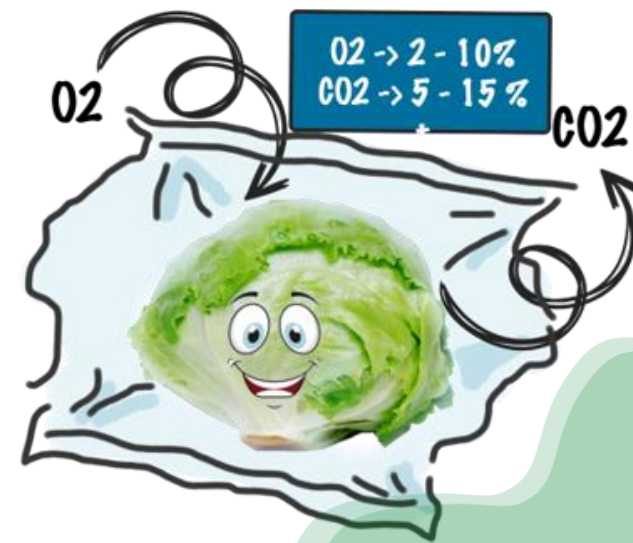
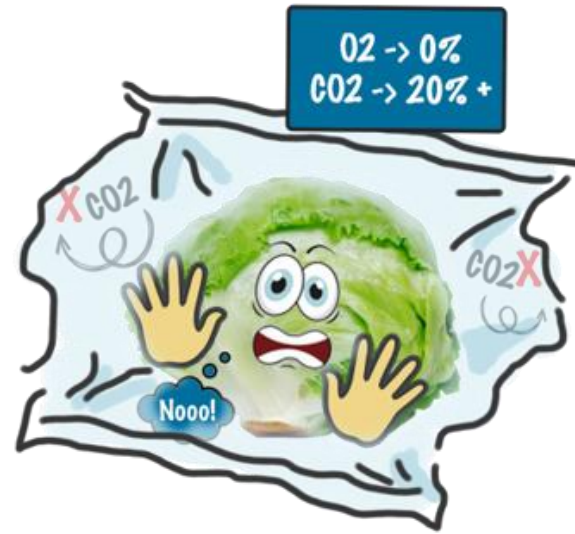
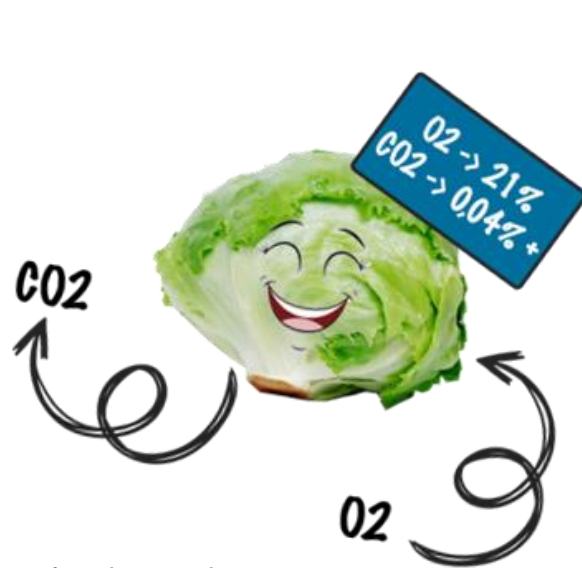
## PerfoTec's Investment plan

Hier willen wij het geld van de obligatielening aan besteden, in volgorde van belangrijkheid:	Als wij € 1.500.000 verkopen, dan willen wij dat zo besteden:	Als wij € 1.000.000 verkopen, dan willen wij dat zo besteden:	Als wij € 500.000 verkopen, dan willen wij dat zo besteden:
USA roll-out equipment en opzetten USA team	400.000	300.000	150.000
Folie patenten landen fase	150.000	150.000	150.000
Werkkapitaal – voorraad folie PerfoTec Film	200.000	110.000	100.000
Laser – folieconverter Spanje	100.000	-	-
Roll-out equipment niet-USA landen	210.000	140.000	50.000
Opbouw organisatie	290.000	200.000	50.000
Innovatie pallet solution (rekfolie van zetmeel)	150.000	100.000	-





## PerfoTec controls the environment in the package



Unpacked product:

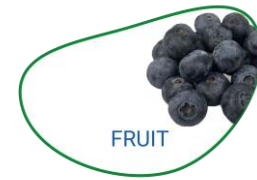
Packed product, without proper MAP:

Packed product, PerfoTec MAP:

Ambient conditions  
Living fast  
Short shelf life

Anaerobic conditions  
Damaged by its own CO2  
Decreased shelf life

Superb conditions  
Reduced life speed  
Increased shelf life



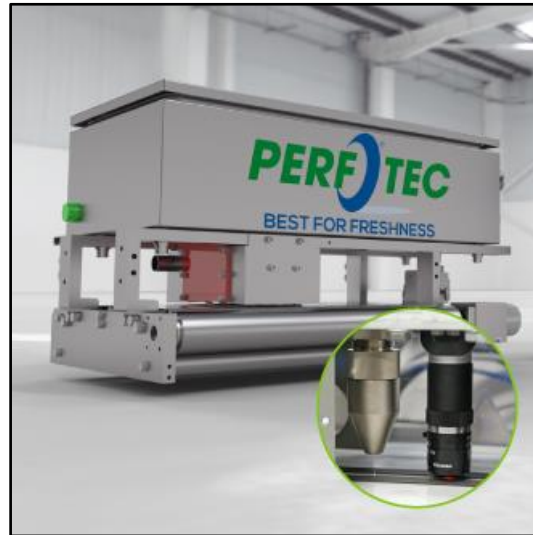
## PerfoTec's Solutions

Fast Respiration Meter



Measure produce respiration rate

Online laser system



Fine tune package permeability

O2Control

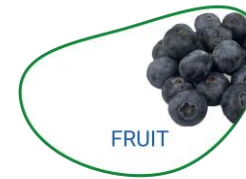


Gas flush package to optimal oxygen level

LinerBag/Films



Fully tuned package for fresh produce



## PerfoTec's CLMS



### 1. Choose product

Variety: Test  
Target O<sub>2</sub>: 12 %  
Product factor: 2.5  
Packaging: Testtrayles  
Area: 0.1544 m<sup>2</sup>  
Produce mass per pack: 600 g  
Total volume of pack: 3 L  
File type: OPP  
Film thickness: 30 μm  
Supply chain: retail  
Chain temperature: 7 °C  
Number of days: 8  
Respiration rate O<sub>2</sub>: 2000 @ 7°C  
Respiration rate CO<sub>2</sub>: 1950 @ 7°C

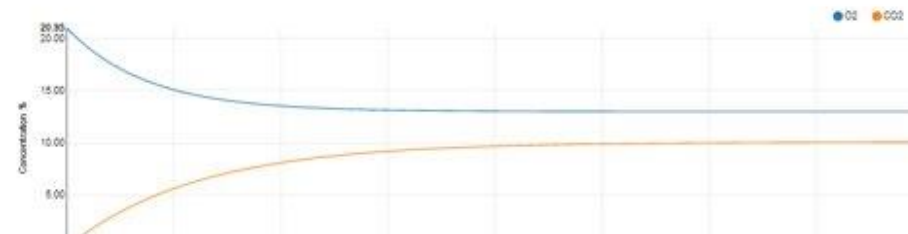
### 2. Select respiration measurements

From: 2018-05-15 To: 2018-11-15 Meter:   
Table:  
Date: 2018-11-15 Time: 07:55 O<sub>2</sub> RR: 2000 CO<sub>2</sub> RR: 1950 Meter: RR031410008



### 3. Result

Transmission: 3081 mL air/pack/24h  
with product factor: 7703 mL air/pack/24h



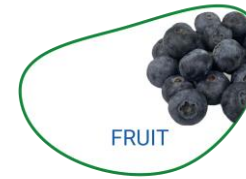
### What does it do:

- Connect all PerfoTec equipment through a web app

### Why

- To simplify configuring and controlling the PerfoTec equipment and process





## PerfoTec's Bio-based LinerBag

### What does it do:

- Balanced oxygen, carbon dioxide transmission
- High water vapor transmission

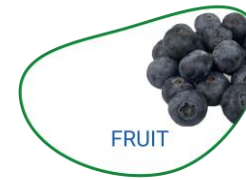
### Why

- To pack at optimum oxygen and carbon dioxide level
- To prevent the product from dehydrating while keeping the product dry

### Application

- Solution for transport and storage of bulk fresh produce and flowers with passive MAP





## PerfoTec's Recyclable Film

### What does it do:

- Balanced oxygen, carbon dioxide transmission

### Why

- To avoid anaerobic packaging because of high COTR
- To prevent the product from weight loss, less product decay

### Application

- Recyclable film solution for retail packs (VFFS and HFFS) suitable for active or passive MAP

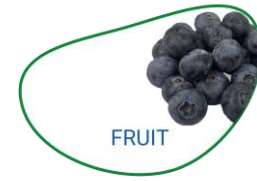




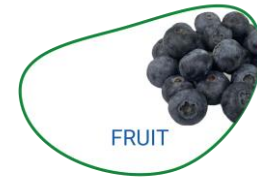
Green asparagus  
No Dehydration with the PerfoTec Liner Bags

AIR freight, 13 Days, Control

SEA freight, 33 Days, PerfoTec LinerBags



3°C



Bell peppers storage and transport  
Better bite with the PerfoTec Liner bags

8°C

Start, Day 0

18 Days, Control

28 Days, PerfoTec LinerBags



DAY 18  
Weight  
loss of  
5 %

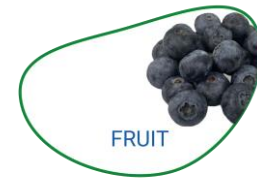


DAY 28  
Weight  
loss of  
2 %

+10  
EXTRA  
DAYS



Broccoli – Sea freight  
Better quality at arrival with PerfoTec Liner Bags

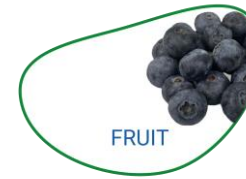


40 Days, Control

40 Days, PerfoTec LinerBags





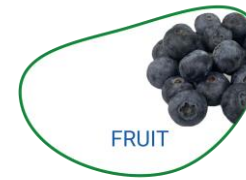


## PerfoTec's promise

As a **one stop shop** PerfoTec ensures less waste with our innovative technology which not only reduces costs but also contribute to a better world.

## PerfoTec's delivers

If you want a longer **shelf life** for your vegetables, fruits and flowers in a **responsible** and **environmentally** way, contact us.



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