

# WE ARE FARMERS



**AGRICULTURAL FILMS**  
BY TRIOPLAST



## RELIABLE

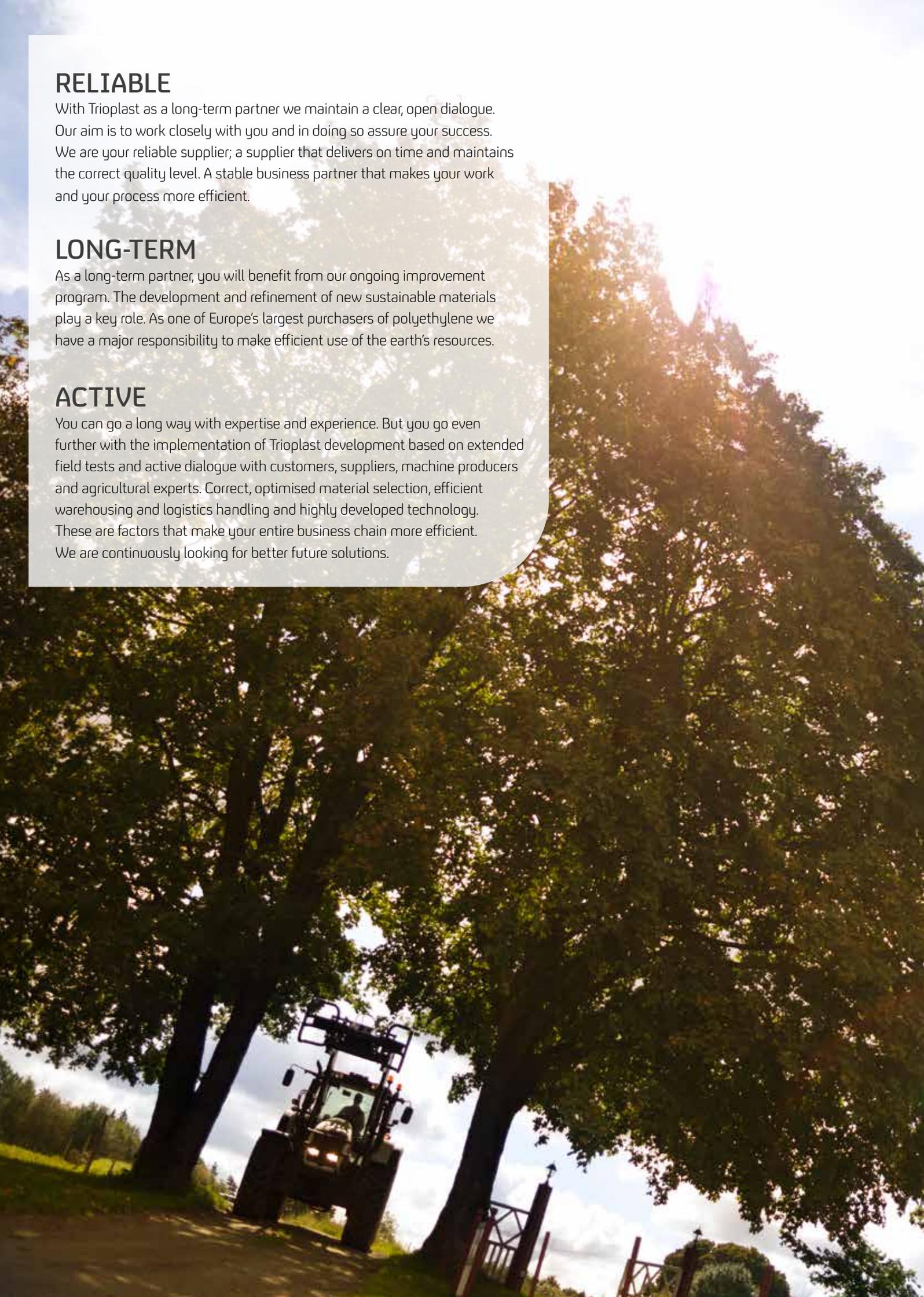
With Trioplast as a long-term partner we maintain a clear, open dialogue. Our aim is to work closely with you and in doing so assure your success. We are your reliable supplier; a supplier that delivers on time and maintains the correct quality level. A stable business partner that makes your work and your process more efficient.

## LONG-TERM

As a long-term partner, you will benefit from our ongoing improvement program. The development and refinement of new sustainable materials play a key role. As one of Europe's largest purchasers of polyethylene we have a major responsibility to make efficient use of the earth's resources.

## ACTIVE

You can go a long way with expertise and experience. But you go even further with the implementation of Trioplast development based on extended field tests and active dialogue with customers, suppliers, machine producers and agricultural experts. Correct, optimised material selection, efficient warehousing and logistics handling and highly developed technology. These are factors that make your entire business chain more efficient. We are continuously looking for better future solutions.



# TRIOPLAST worldwide

## Our competence for your solutions

Headquartered in Sweden, Trioplast develops, manufactures and markets packaging-, agricultural- and hygiene films worldwide. In the field of high-performance polyethylene films, we are the European leader. We owe our excellent market position to our consistent focus on high-quality packaging solutions with low material consumption. As one of the most innovative companies in the industry, we are aware of our responsibility: Trioplast is one of the pioneers in the production of industrial and agricultural stretch films as well as other packaging films.

					
Divisions	<b>STRETCH FILM</b>	<b>INDUSTRIAL FILM</b>	<b>HYGIENE FILM</b>	<b>CARRIER BAGS</b>	<b>AFP</b>
Product lines	<ul style="list-style-type: none"> <li>• Pallet stretch film</li> <li>• Agricultural film</li> <li>• Refuse sacks</li> <li>• Building and covering film</li> </ul>	<ul style="list-style-type: none"> <li>• FFS film</li> <li>• Stretch hoods</li> <li>• Shrink film</li> <li>• Forest industry film</li> <li>• Refuse sacks</li> <li>• Industrial bags and sacks</li> </ul>	<ul style="list-style-type: none"> <li>• Embossed film</li> <li>• Breathable film</li> <li>• Laminates, breathable and non breathable</li> <li>• Blown film</li> <li>• Film with high-quality printing</li> <li>• Bags for hygienic purposes</li> </ul>	<ul style="list-style-type: none"> <li>• Plastic carrier bags for food retailers</li> </ul>	<ul style="list-style-type: none"> <li>• Stretch film</li> <li>• Food packaging film</li> <li>• Innovative film</li> </ul>
Units	<ul style="list-style-type: none"> <li>• Trioplast AB</li> <li>• Trioplast France SAS</li> </ul>	<ul style="list-style-type: none"> <li>• Trioplast Nyborg A/S</li> <li>• Trioplast Sifab AB</li> <li>• Ekoplast Emballage AB</li> <li>• Mo Industri AB</li> </ul>	<ul style="list-style-type: none"> <li>• Trioplast Landskrona AB</li> <li>• Trioplanex France SAS</li> </ul>	<ul style="list-style-type: none"> <li>• Bengt Lundin AB</li> </ul>	<ul style="list-style-type: none"> <li>• Apeldoorn Flexible B.V.</li> </ul>

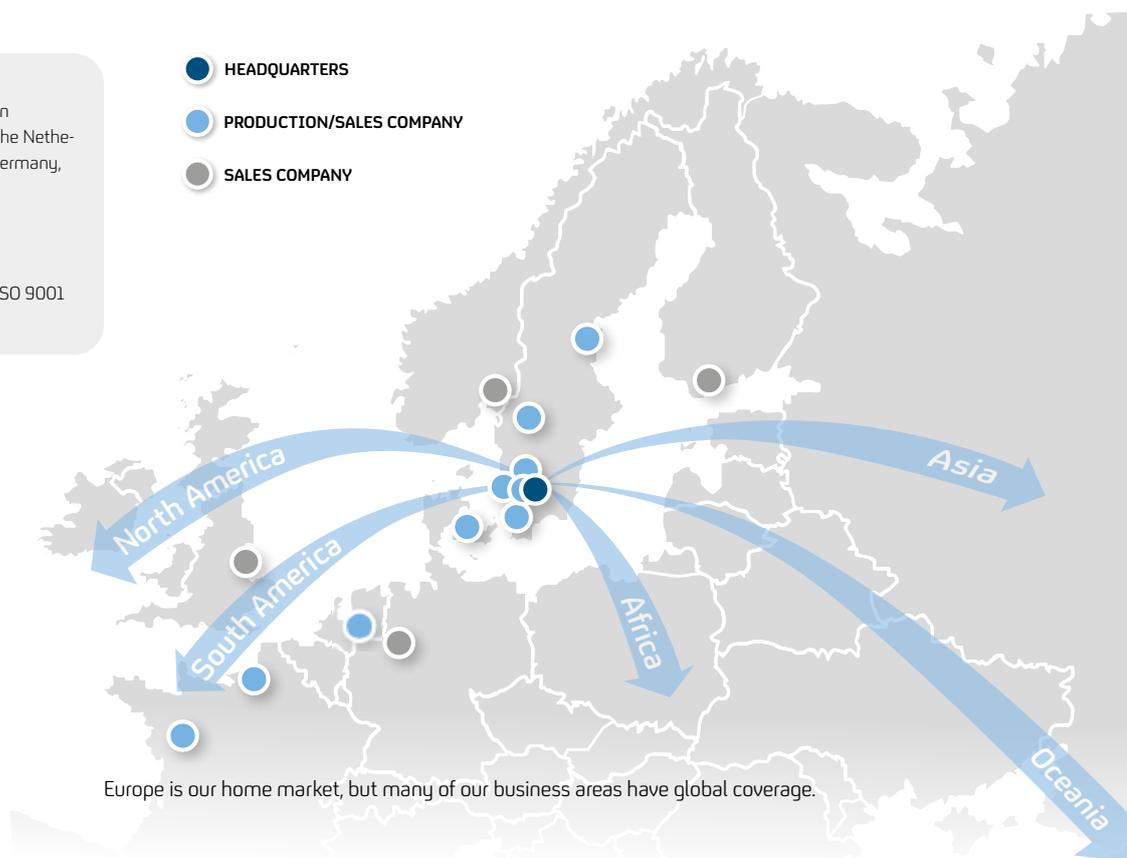
Sales companies (in addition to the sales offices at each unit)

<b>Trioplast OY</b> <i>Finland</i>	<b>Trioplast LTD</b> <i>UK</i>	<b>Trioplast GmbH</b> <i>Germany</i>	<b>Trioplast AS</b> <i>Norway</i>	<b>Bengt Lundin AS</b> <i>Norway</i>
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### Key data

- > Headquarters in Smålandsstenar, Sweden
- > 10 production sites in Sweden, Denmark, the Netherlands and France, as well as offices in Germany, Great Britain, Finland and Norway
- > Trade representatives in all EU countries
- > 1 200 employees
- > Founded in 1965
- > Quality assurance according to DIN EN ISO 9001 and DIN EN ISO 14001

-  HEADQUARTERS
-  PRODUCTION/SALES COMPANY
-  SALES COMPANY



Europe is our home market, but many of our business areas have global coverage.

# AGRICULTURAL FILMS

Trioplast is one of Europe's leading forces in creative and cost-efficient use of polyethylene within the modern plastic and packaging fields. You will meet Trioplast products globally and they are represented in all parts of the world.

Within the field of agriculture, we are committed to increase the efficiency and profitability and improve the sustainability for farmers and contractors working with our products and solutions. Users of Trioplast products for ensiling and storage of high-quality feed can be sure that we never compromise with quality, because your values are important to us. Our assortment is wide with both stretch film for bale wrapping, silage sheet for bunkers and niched horticulture products as vegetable and maize mulch films.

Trioplast has a very close cooperation with contractors and farmers. The exchange of experience between our product specialists and the people who use our products daily plays a very important role in our development process.



# SILAGE STRETCH FILM

## Premium

1500 - 1700 m

Our premium brands are well tried and tested globally on the market by farmers, contractors, machine manufacturers and independent research institutes. They have been reliable choices ever since introduced in the 1980's.

## PreTech®

1900 - 2600 m

The PreTech® assortment is the new generation of balewrap. The unique PreTech® technology enables us to create a thinner film with the same performance as 25 micron premium film and gives the user the possibility to be more efficient, save costs and valuable time.

## Mantle film

1800 - 4500 m

BaleCompressor is a mantle film that replaces net wrap in mobile and stationary balers. BaleCompressor give compact bales with improved silage quality and simplifies handling of the bales in the feeding process.

## Special Items

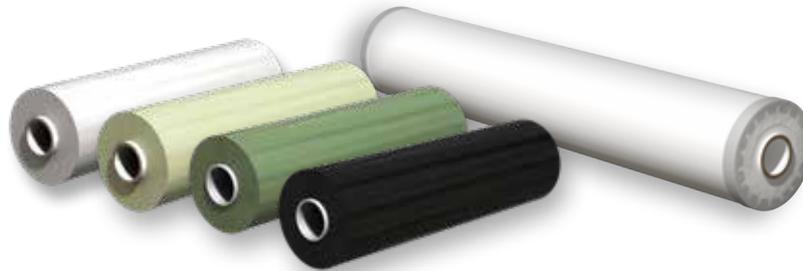
1000 - 1800 m

HorseWrap has been developed and tested in co-operation with experts from SLU (the Swedish University of Agricultural Sciences) and horse owners around Scandinavia. A lot of research by SLU and practical experiences show that silage is excellent forage for horses.

## Engery

500/750mm

WasteWrap is specifically designed for wrapping round and square bales. Suitable for all kinds of machines and also sharpened edged garbage, it provides an economic and trouble-free solution for your waste wrapping process.



- A pioneer with over 35 years experience in the silage stretch business
- Constant development of new products for improved efficiency and decreased environmental impact
- Products are field tested regarding performance and silage quality by our own product specialists and SLU (Swedish University of Agricultural Sciences)
- Wide product assortment, optimized for different agricultural applications
- Supporting both distributors and end users with service and support
- Strong high-performance premium brands

## WE ARE PROUD

2014 we introduced the pink silage stretch for charity of breast cancer research, in cooperation with our distributor in New Zealand. Since then we also have introduced the blue color for prostate cancer awareness and yellow color for childhood cancer awareness.

We are proud for the outcome with these worldwide campaigns and the contribution this has brought to the research!





# SILAGE SHEETS

## QUALITY

Covering the silage perfectly is one of the foundations for good fodder quality. Best raw materials and premium additives ensure the functionality of our wide silage films concerning all important factors – high air tightness and tear strength as well as flexibility for easy handling. In addition, Trioplast works closely together with contractors, farmers and independent research institutes to enhance the films further and improve them for practical use.

## DURABILITY

Besides the good mechanical properties like high puncture resistance and tear strength, our silage sheet films are UV stabilized for up to 24 months. This period allows contractors and farmers to be more flexible and secure their stock of silage properly. This is particularly interesting for large dairy farms and biogas plants.

## FOCUS ON ENVIRONMENT

Trioplast has a high focus on developing sustainable products. Our silage sheet assortment is designed with a high content of recycled material. We have invested in a recycling department that allows us to produce top quality silage sheets with up to 96% recycled material!

## SERVICE & KNOW-HOW

Trioplast has more than 40 years of experience in the conception and production of agricultural silage sheet films. Since we work closely together with our customers and silage experts, we have developed know-how throughout the world. Our teams will support you and give advice along the way.

**Our product range** of silage sheets comes in various colours, different packaging options and widths from 6-18 m and lengths from 25-400 m.



Products	Thickness (µm)	Colours	UV stability
Triotech™	40	Transparent	N/A
TriO <sub>2</sub> ™	115	Black/Blue	24 months
Triosun™	110	Black/Green	24 months
	115	White	24 months
	120	Black/White	24 months
	120	Black	24 months
Triocare™	150	Black/Green	18 months
	150	White	18 months
	150	Black/white	18 months
	150	Black	18 months
Trioblack™	150	Black	12 months



# MULCHING FILMS

## Secure yield of maize crop

Trioplast maize mulching films create better conditions for the seed germination and are stimulating the development of the root system. The plant growth will accelerate, increased dry matter and better crop homogeneity will be achieved as well as a more efficient management of water resource, especially when spring is dry. Using Trioplast maize mulching range is also the key to achieve earlier harvest of maize in the fall, when the soil is not too wet, yet.

## Product development based on trials around the world

Our product range of maize mulching films is the result of our research & development work based on many year's experience from extensive trials in different geographical locations with a broad range of different climatic conditions.

Products	Thickness
Actimaïs™	10 µm or 12 µm

# SUSTAINABLE AGRICULTURAL FILMS



## WE DESIGN FOR THE FUTURE

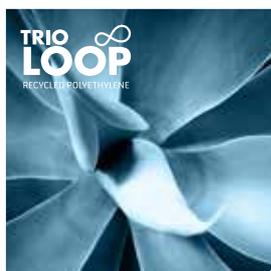
As a leading producer of polyethylene film, at Trioplast we take responsibility for the environment in everything we do. We strive to reduce the amount of material in our products, we recycle waste materials and we continuously develop our expertise so as to decrease our use of non-renewable raw materials.

In short: We design solutions for the future.

Triogreenway is our sustainability toolbox. With our services and products, we can help you as a customer to be more sustainable. Our growing sustainability portfolio consists of three brands, Triogreen, Trioloop and Triolean, representing different sustainable technologies.



**TRIO: GREENWAY**  
SUSTAINABLE SERVICES



Product offering concepts:

TRIOLEAN - REDUCE

TRIOLOOP - RECYCLE

TRIOGREEN - REMOVE



# TRIO GREENWAY

SUSTAINABLE SERVICES

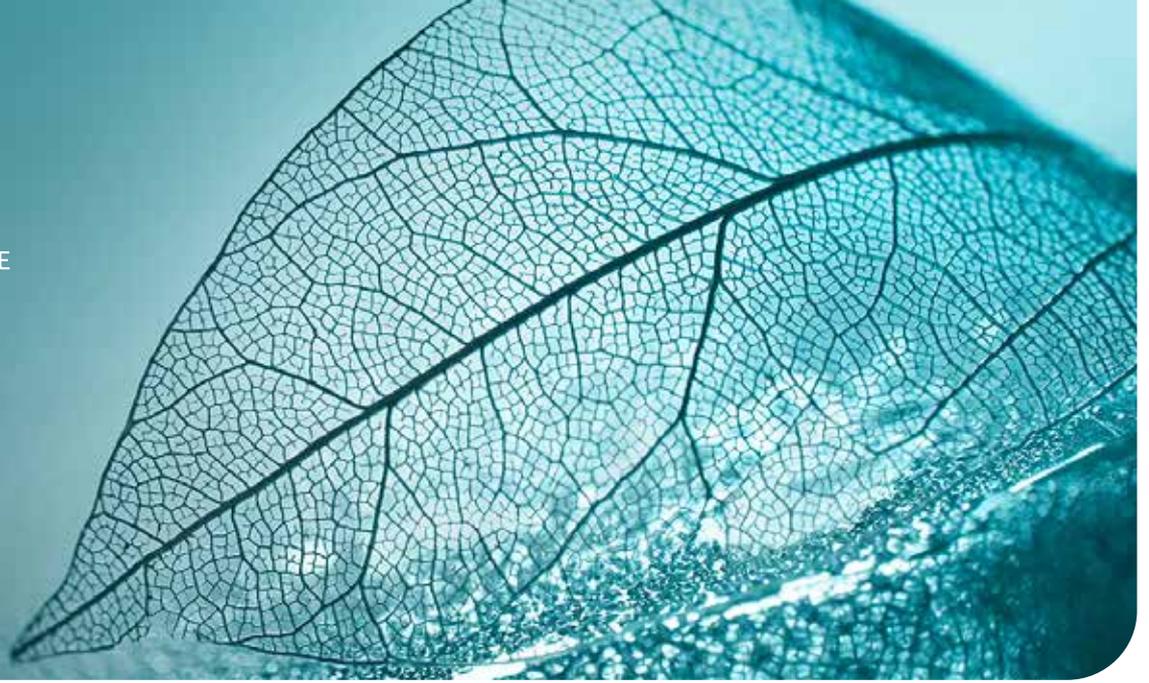
## TRIO: GREENWAY

SUSTAINABLE SERVICES

- We have leading expertise in making the use of stretch films as efficient and sustainable as possible
- To minimize impact on environment we must and contribute in many areas:
  - Be efficient by using products that are optimized for the application with as less material as possible
  - Reduce feed waste by using the right technology and quality products to minimize your silage losses
  - When applicable use products with recycled content
  - When applicable use products with green PE
  - Collect and sort plastic waste after usage for recycling
- We want all our customers to join in, into the circular chain. One way is to do it is Trio: Greenway.

## OUR SERVICES TO LESS ENVIRONMENTAL IMPACT

- **SUSTAINABLE PRODUCT OFFERING** – Triolean, Trioloop, Triogreen
- **PRODUCT GUIDES** – From each customers pre-conditions, the most efficient and sustainable product can be recommended
- **TECHNICAL SUPPORT**– Supporting the customer to be more efficient and by that reducing the waste in the silage making
- **SILAGE QUALITY TESTED PRODUCTS** – Our premium silage stretch products are tested by SLU (Swedish University of Agricultural Sciences) which proves high silage quality
- **SILAGE MAKING EDUCATION** – In cooperation with our distributors we offer educations about professional silage making.
- **SUPPORTING COLLECTING AND RECYCLING** – In all regions where we are present, we are supporting the implementation of National Collecting Schemes (NCS) to improve agri-waste recycling rate. i.e. APE, Svepretur, ERDE, Plasback
- **TRIOPLAST LCA (LIFE CYCLE ANALYSIS)** - Supported by SimaPro, this is a method used to assess the overall environmental impact of a product's lifecycle. It is a good tool for understanding, which product that has less impact on the environment.



# TRIOLEAN

WITH SUSTAINED OR INCREASED PERFORMANCE

Substantial investments in the latest available technology for film production together with focused innovation is paving the way for dramatic reduction of the amount of material used in a product (up to 24% less material). Thinner products, with sustained or increased performance, enables us to create added value for both our customers and the environment.

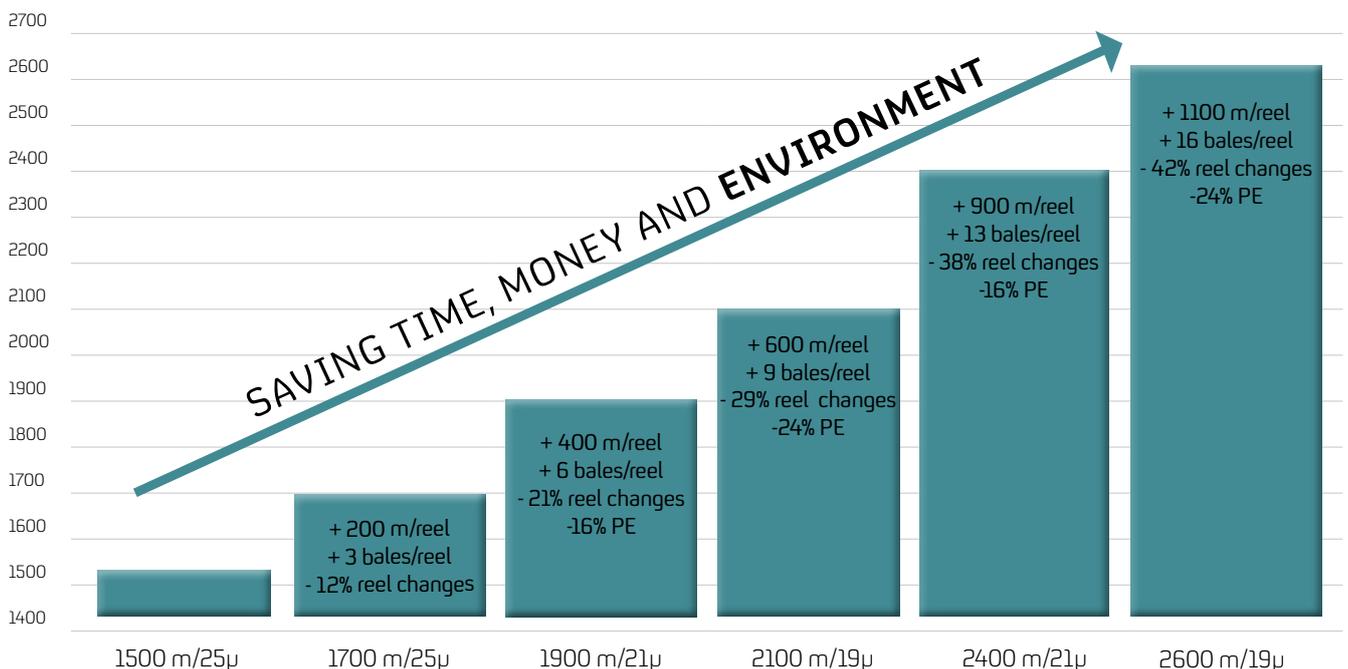
In addition, we also work continuously with using as less material as possible in our own packagings without compromising on the quality.



I.e. Our Contractorwrap® packaging with no boxes for less waste and efficient reel handling

## TRIOLEAN ASSORTMENT OF SILAGE STRETCH

The steps towards less impact on the environment and greater efficiency



\*750 mm width of reels

Based on: Round bale 1,20 m, 6 layers of film, 55 % overlap, 70 % pre stretch, when comparing 1500 m film.



**TRIO  
LOOP**  
RECYCLED POLYETHYLENE

## TRIOLOOP

RECYCLED POLYETHYLENE

Trioloop is our product offering for polyethylene film that contains recycled material.

By using recycled material, we decrease waste, reduce the carbon footprint and close the material loop. Leaning on our extensive experience in working with recycled polyethylene, we have refined both the quality of the material, and the processes used to produce high quality film with stable properties.

**Our Silage sheet products is a good example of Trioloop products.**

- High levels of PCR- Post Consumer Recycled (>25%).
- Single material construction, no barrier materials such as EVOH or PA.
- 100% recyclable
- Availability of thin silage sheet products which are both Trioloop and Triolean



**TRIO  
GREEN**  
RENEWABLE POLYETHYLENE

## TRIOGREEN

RENEWABLE POLYETHYLENE

Triogreen products are based on fossil-free green polyethylene with a very low carbon footprint. Our current green polyethylene is based on feedstock derived from sugarcane.

Having the same properties as fossil-based polyethylene, it can be used in all varieties of films and products.

As a pioneer in the market we offer a silage stretch film based on renewable polyethylene. Functionality and silage quality just as good as our premium films!

# Trioplast – We keep our promises!

## Reliable

Proven | Trustworthy | Efficient | Safe | High Quality Authentic | Economic | Dependable | Supply Capability

## Long-term

Solid | Durable | Experienced Team | Long-term Partnerships | Confident | Fair | Care for the Environment

## Active

Constant dialogue with Customers & Partners | Leading Innovator | Continuous Process Development | Silage Service & Support

Trioplast is an industrial group with a little over 1,200 employees and a turnover of EUR 540 million. The Group is one of Europe's leading players in innovative and cost-efficient packaging solutions based on polyethylene film. The company's registered office is in Smålandsstenar in Sweden. It operates production facilities in Sweden, Denmark, Netherlands and France and sells its products to a global market. The principal owner of Trioplast is Altor Funds.



## WE DESIGN FOR THE FUTURE

As a leading producer of polyethylene film, at Trioplast we take responsibility for the environment in everything we do. We strive to reduce the amount of material in our products, we recycle and reuse waste materials, and we continuously develop our expertise so as to decrease our use of non-renewable raw materials.

In short: We design sustainable solutions for the future.



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APE Europe objective is to improve agri-waste recycling rate by the implementation of national collecting Schemes (NCS) all over Europe.