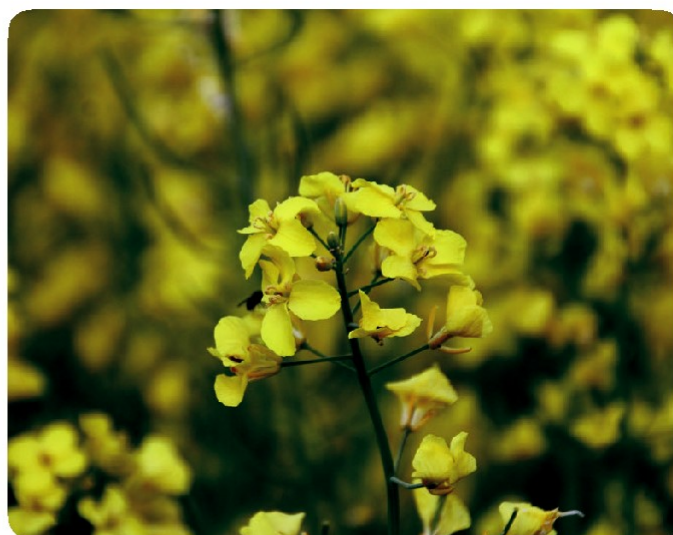


THE EUROPEAN OLEOCHEMICAL INDUSTRY AT A GLANCE

**Traditional and innovative products
from sustainable sources**



**The European
Oleochemical Industry**

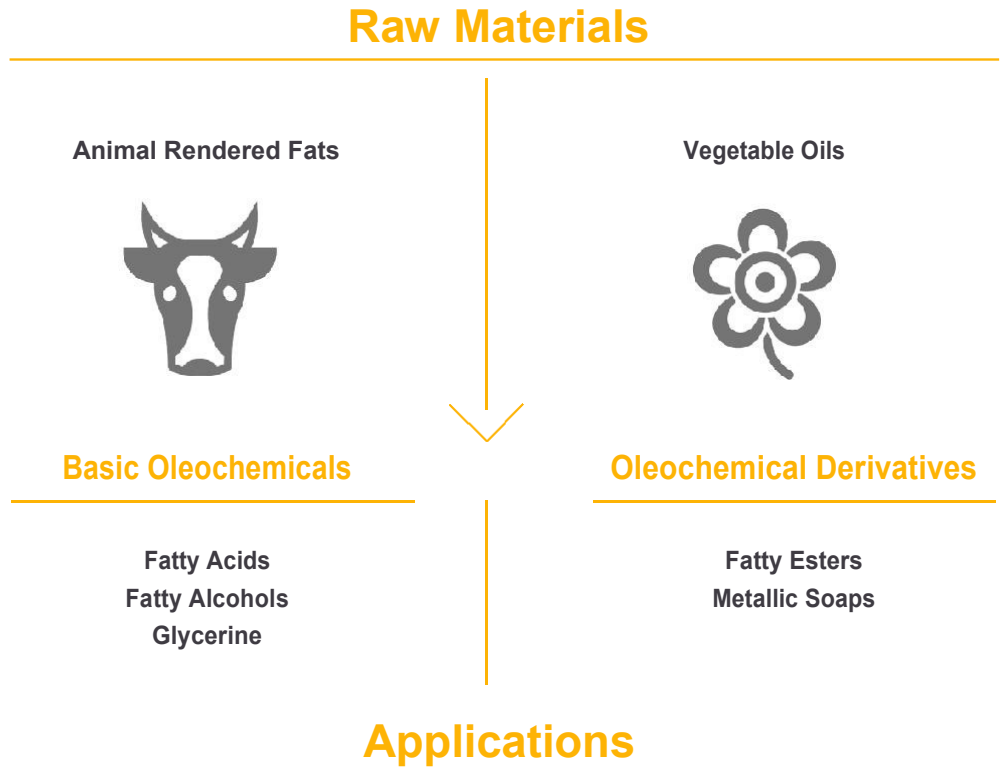
WHAT ARE OLEOCHEMICALS?

Oleochemical substances have unique properties and they are made mainly from renewable plant oils and animal rendered fats. Oleochemicals are used as raw materials or intermediates such as for example paints, plastics and numerous everyday products.

An oleochemical production plant is a modern biorefinery based on plants oils, animal rendered fats and organic side-streams from other industries.

THE MODERN PRODUCTION PLANT

- An oil and fat-based biorefinery for a wide variety of everyday products.



APAG (The European Oleochemicals and Allied Products Group) represents the European manufacturing companies which, for more than 150 years, have been using animal fats and plants oils to produce oleochemical products.

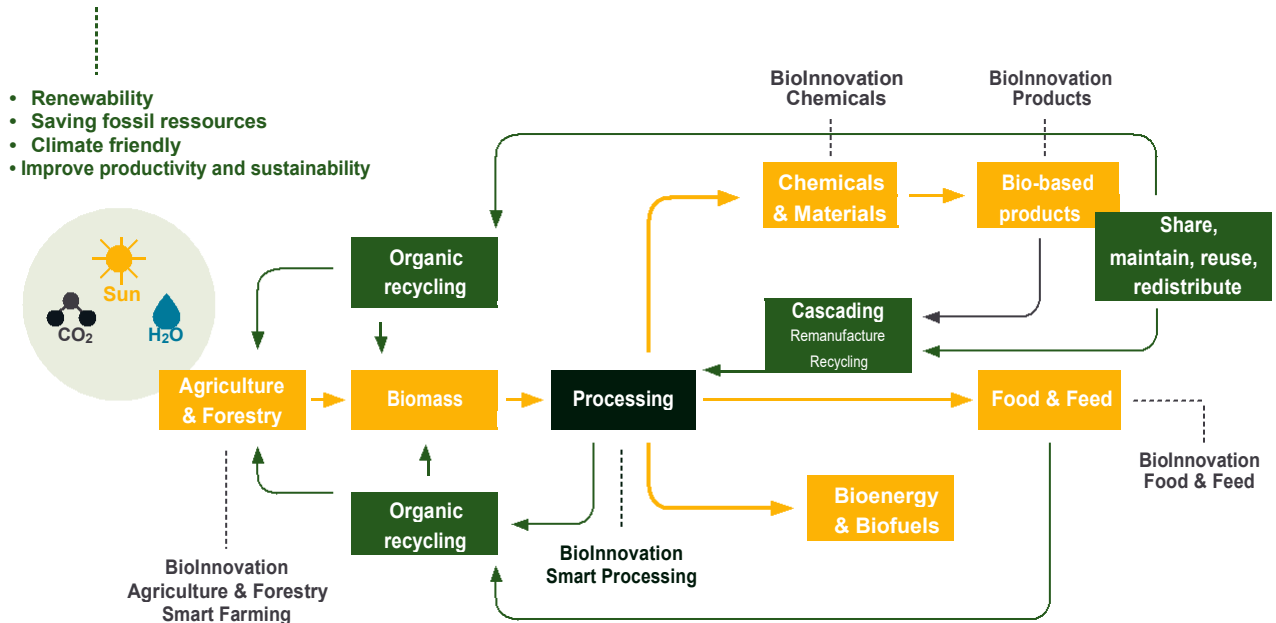
Soaps & Detergents 	Personal Care 	Rubber production 	Electronics & Plastics
Paints & Coatings 	Lubricants 	Healthcare 	Food
Paper recycling 	Printing 	Leather 	

...and many more

OLEOCHEMISTRY IN BIO-BASED ECONOMY AND CIRCULAR ECONOMY

Bioeconomy: a step beyond circular economy

■ Bioeconomy ■ Circular Economy



- Renewability
- Saving fossil resources
- Climate friendly
- Improve productivity and sustainability

The oleochemical industry is one of the oldest parts of the bio-based economy, utilising plant oils and animal rendered fats that replenish themselves in the natural biological cycle.

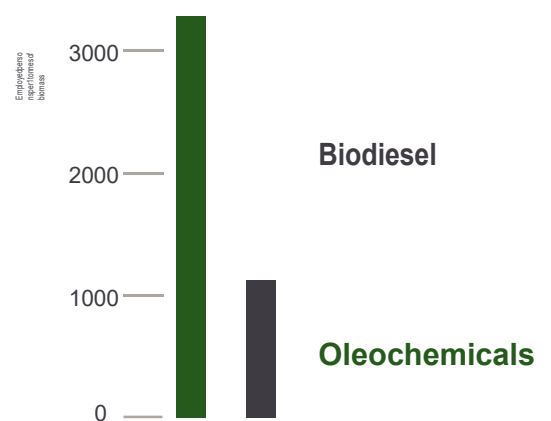
The oleochemical industry makes valuable use of by-products from other industries such as food and meat processing and paper-making. Additionally, oleochemical products serve as additives - e.g. for paper applications - that enhance the recyclability of several products.

Using high-volume plant oils and side-streams from other industries and by enabling recycling for bio-based products, the oleochemistry is a crucial part of the Circular Economy.

FACTS AND FIGURES

- One of the oldest parts of Europe's bio-based economy.
- The oleochemical industry provides hundreds of products and is part of everyone's everyday life.
- Processes are continuously improved to create new oleochemicals with unique properties.
- Sustainability plays a key role in all parts of the value chain - from the feedstock (animal fats, plant oil) and processing a wide range of environmental friendly intermediates and products.
- Using side-stream from food and feed industry and by enabling recycling for bio-based products, the oleochemistry is a crucial part of the Circular Economy.
- Turnover of 4 billion EUR per year, added value of 1.5 billion EUR.
- The sector employs over 10,000 people and indirectly supports an estimated 30,000 jobs. Compared to biodiesel, this is three times more per ton of processed biomass.

Employment in the oleochemical industry in comparison to biodiesel and bioethanol, EU-28, 2013, per biomass input.



Source: Eurostat/Prodcom



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Oleochemical Industry**

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A sector group of Cefic 