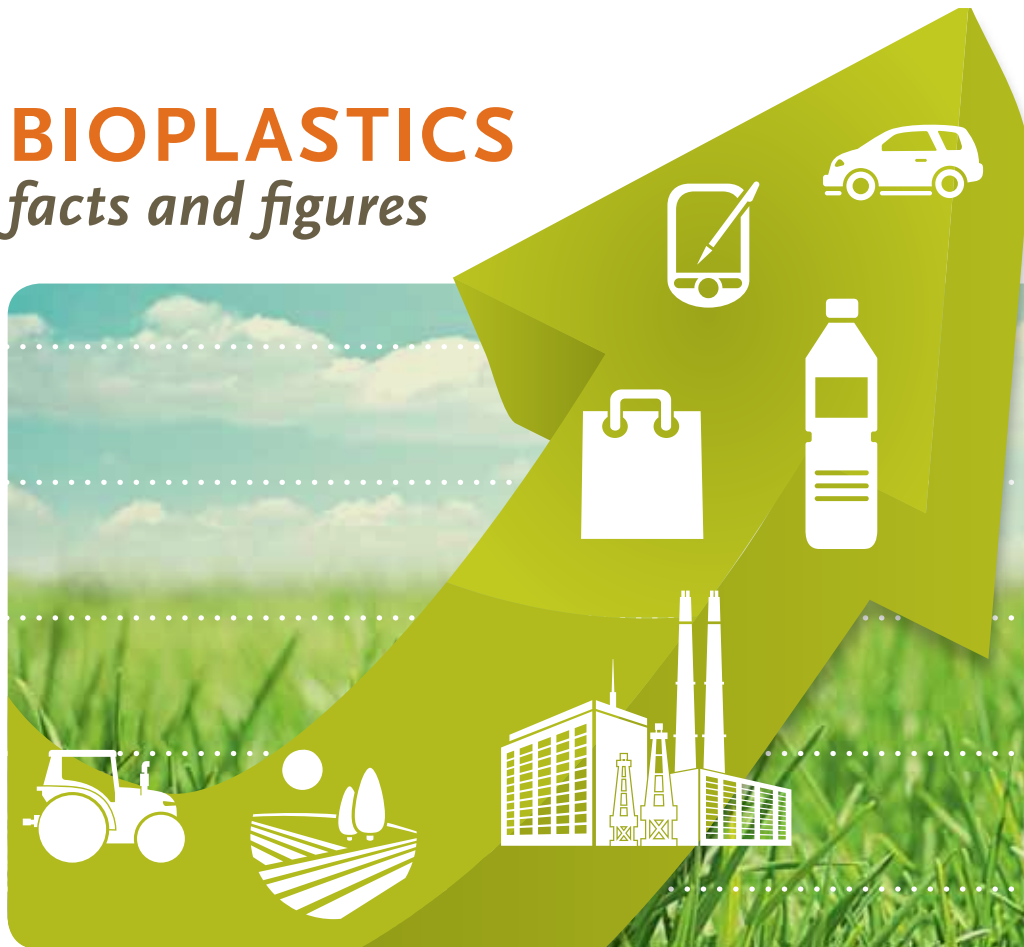


BIOPLASTICS

facts and figures






BIOPLASTICS AND THE EU'S BIOECONOMY

Today, the European bioeconomy sectors  are worth **2 TRILLION EUROS** in annual turnover and account for **22 MILLION JOBS** in the EU. **That is approx. 9% of the EU's workforce.*** 

*Source: European Bioplastics 2012; EC-Communication "Innovating for Sustainable Growth: A Bioeconomy for Europe" 13.02.2012

BIOPLASTICS are (partly or fully) biobased, biodegradable, or both. The global bioplastics production capacity is **set to grow 500%** by 2016. 

BIOPLASTICS have been designated a **LEAD MARKET** by the European Commission. The bioplastic market's immense growth will help drive the **further evolution of a bioeconomy** in Europe.

Global production capacity of bioplastics



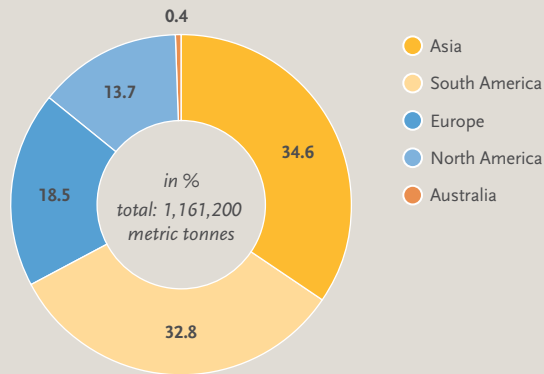
Source: European Bioplastics | Institute for Bioplastics and Biocomposites (October 2012)



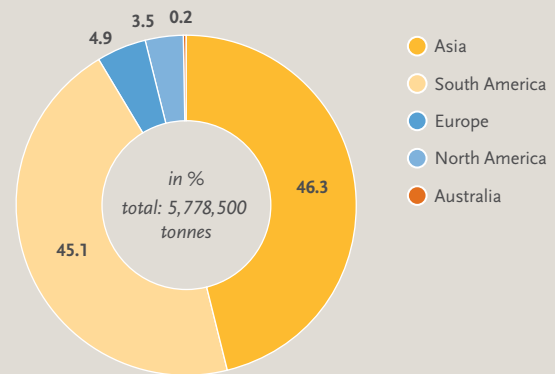
POLICY SUPPORT DECISIVE FOR MARKET SUCCESS

BIOPLASTIC production capacities are growing fastest outside of Europe. In order to attract investments and to secure its place amongst the top-players in the bioplastics market, the EU needs to implement favorable framework conditions.

Global production capacity of bioplastics in 2011 (by region)



Global production capacity of bioplastics in 2016 (by region)



Source: European Bioplastics | Institute for Bioplastics and Biocomposites (October 2012)



ALL BIOPLASTIC MATERIAL TYPES DEMONSTRATE HIGH GROWTH RATES THROUGHOUT ALL MARKET SEGMENTS

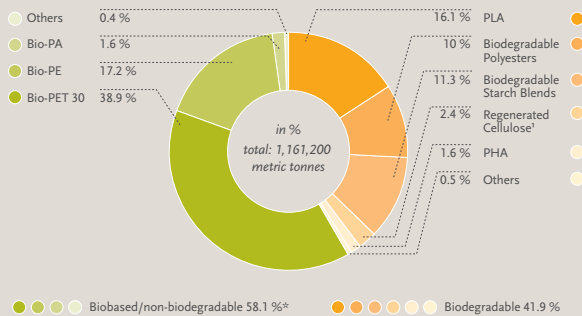
BIOPLASTICS are *a broad family of materials* with widely varying properties.

Ultimately, **BIOPLASTICS** can find a place *in all market segments* where conventional plastics are used. In many of these market segments, *bioplastic alternatives are already available* today.

Biodegradable BIOPLASTICS are *a GROWING NICHE MARKET.*

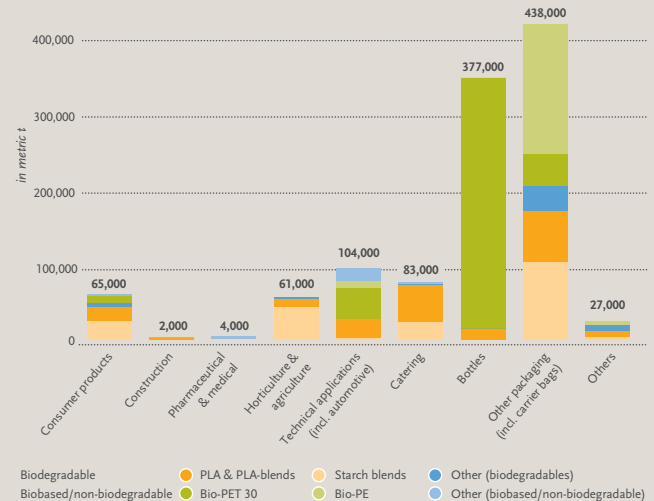
They are often used in short-lived applications such as biowaste bags or packaging of fresh produce.

Bioplastics production capacity 2011 (by type)



¹ only hydrated cellulose foils
 * Comprises drop-in solutions and technical performance polymers.

Global production capacity of bioplastics 2011 (by application)



DROP-IN SOLUTIONS represent the *single largest sector* of the global bioplastics production. They are (partly) *biobased, non-biodegradable commodity plastics* such as PE, PET, or PP, and can be *easily recycled along their conventional counterparts.*

Source: European Bioplastics | Institute for Bioplastics and Biocomposites (October 2012)





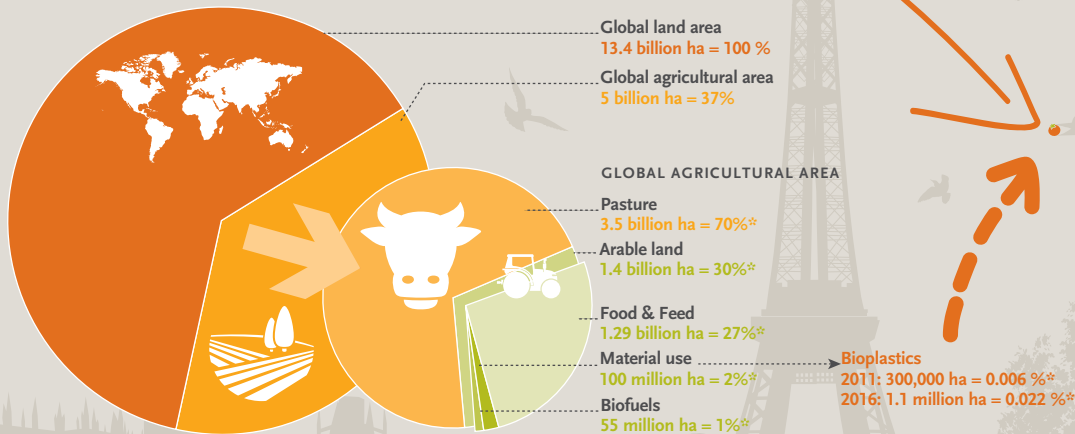
BIOMASS FOR BIOPLASTICS – EFFICIENT USE OF FEEDSTOCK & GOOD AGRICULTURAL PRACTICE

BIOPLASTICS rely on **0,006 %** of the global agricultural area of **5 billion ha**. This compares to the size of an average **CHERRY TOMATO** vis-à-vis the Eiffel Tower.



A glance at the global agricultural area makes it abundantly clear: The area used to grow crops for **BIOPLASTICS is nowhere near being in competition TO FOOD AND FEED.**

Land use for bioplastics 2011 and 2016



Source: European Bioplastics | Institute for Bioplastics and Biocomposites (October 2012) / FAO

* In relation to global agricultural area.



Increasing the efficiency of feedstock and agricultural technology is continuously enhancing **good agricultural practice**. What's more: Today, such best practise is also ensured through the emergence of **reliable and independent sustainability certification** schemes such as ISCC, WLC or BonSucro.



CONTACT & MORE INFORMATION

You want to learn more about the advantages and applications of bioplastics?

Contact for questions regarding bioplastics, and the association:

European Bioplastics e.V.

Marienstr. 19-20

10117 Berlin

Phone: +49 30 28 48 23 50

Email: info@european-bioplastics.org

For more information please visit our website:

www.european-bioplastics.org

Or follow us on twitter:

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