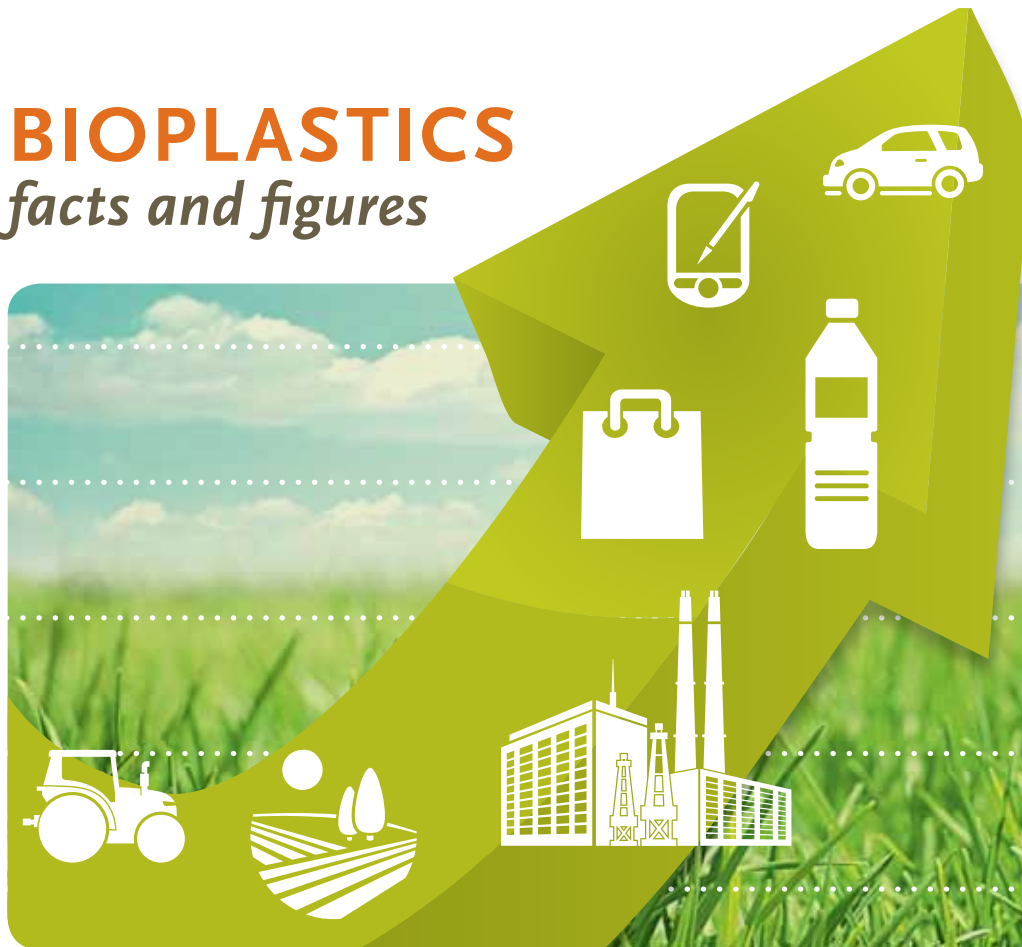


# BIOPLASTICS

*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**

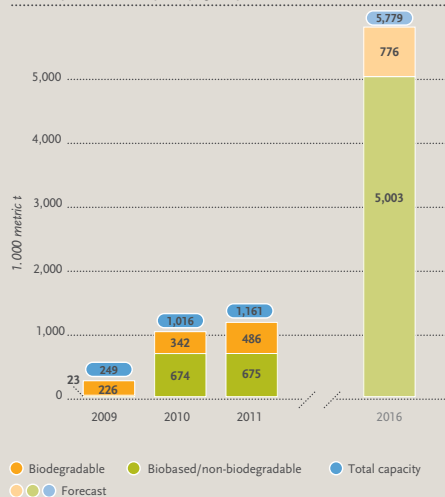
**500%** by 2016.



**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)

European  
bioplastics

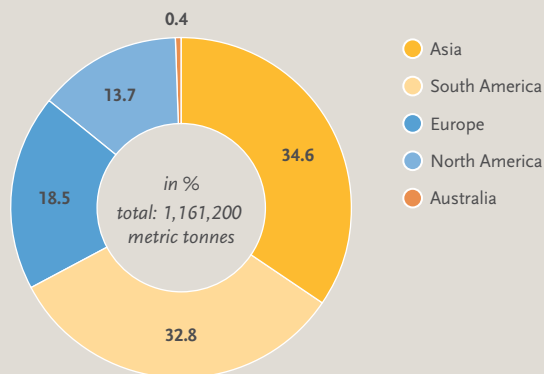
IfBB  
Institute for Bioplastics  
and Biocomposites



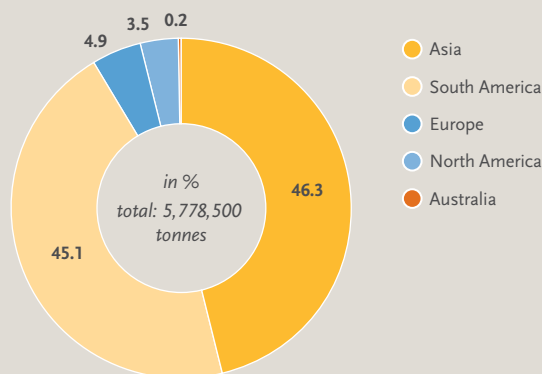
## POLICY SUPPORT DECISIVE FOR MARKET SUCCESS

**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)

European  
bioplastics



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

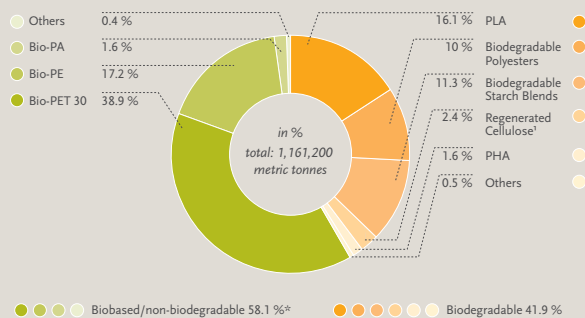
**BIOPLASTICS** are *a broad family of materials* with widely varying properties.

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*.

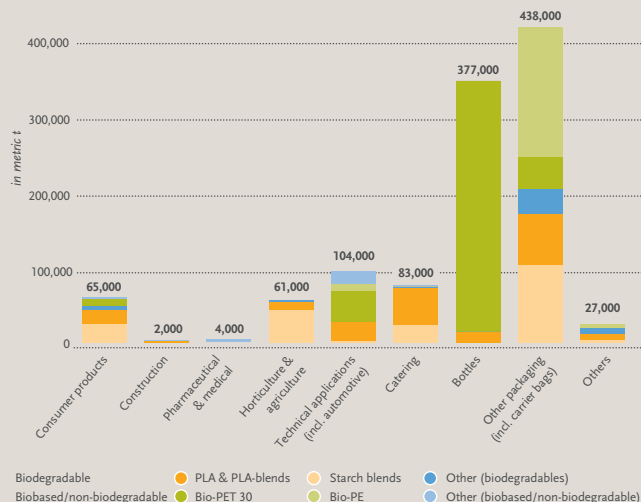
They are often used in short-lived applications such as biowaste bags or packaging of fresh produce.

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)

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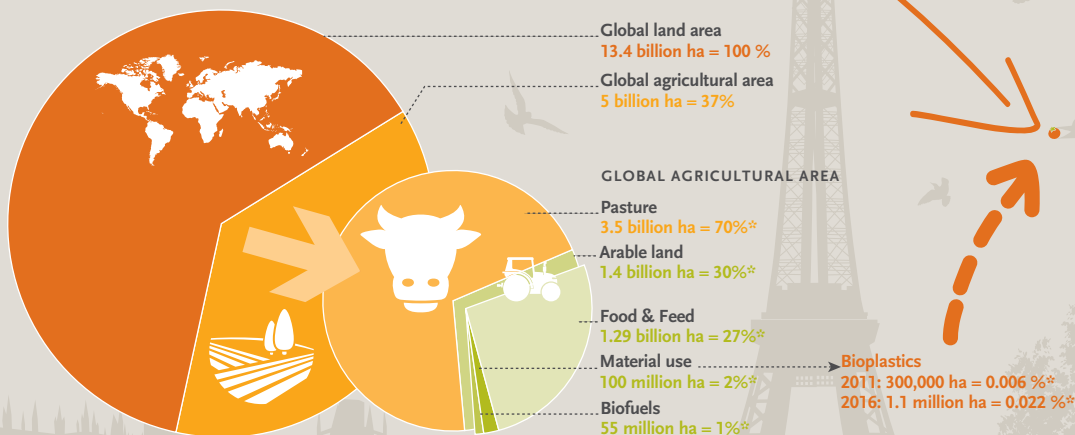
# BIOMASS FOR BIOPLASTICS – EFFICIENT USE OF FEEDSTOCK & GOOD AGRICULTURAL PRACTICE

**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

European  
bioplastics

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and Biocomposites

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:**

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