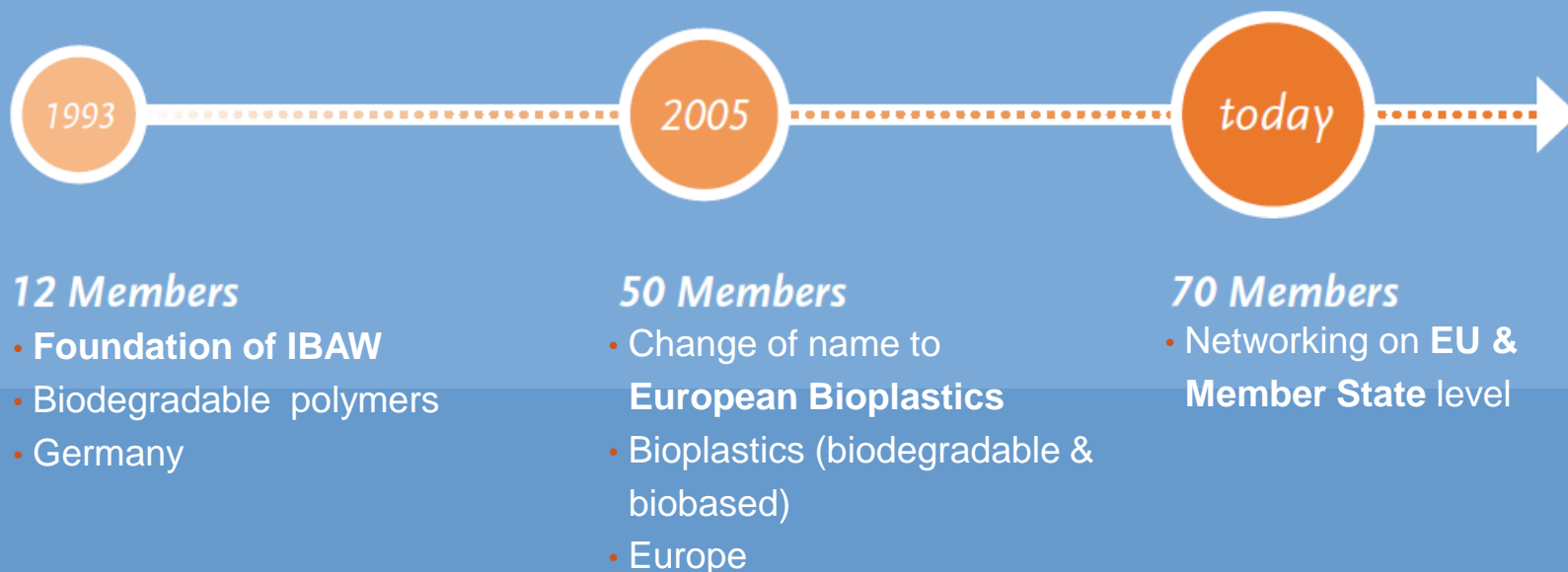




*The contribution of bioplastics in the pursuit towards the circular economy*

European Bioplastics, Hasso von Pogrell, 07 April 2016

## European Bioplastics: 20 years of bioplastic experience



- European Bioplastics is the representation of the bioplastics industry in Europe.



- Its 70 members are companies from the agricultural feedstock, chemical and plastic industries, as well as industrial users and recycling companies.



## *European Bioplastics definition of bioplastics*

# BIOPLASTICS

are



**biobased**  
e.g. bio-PE



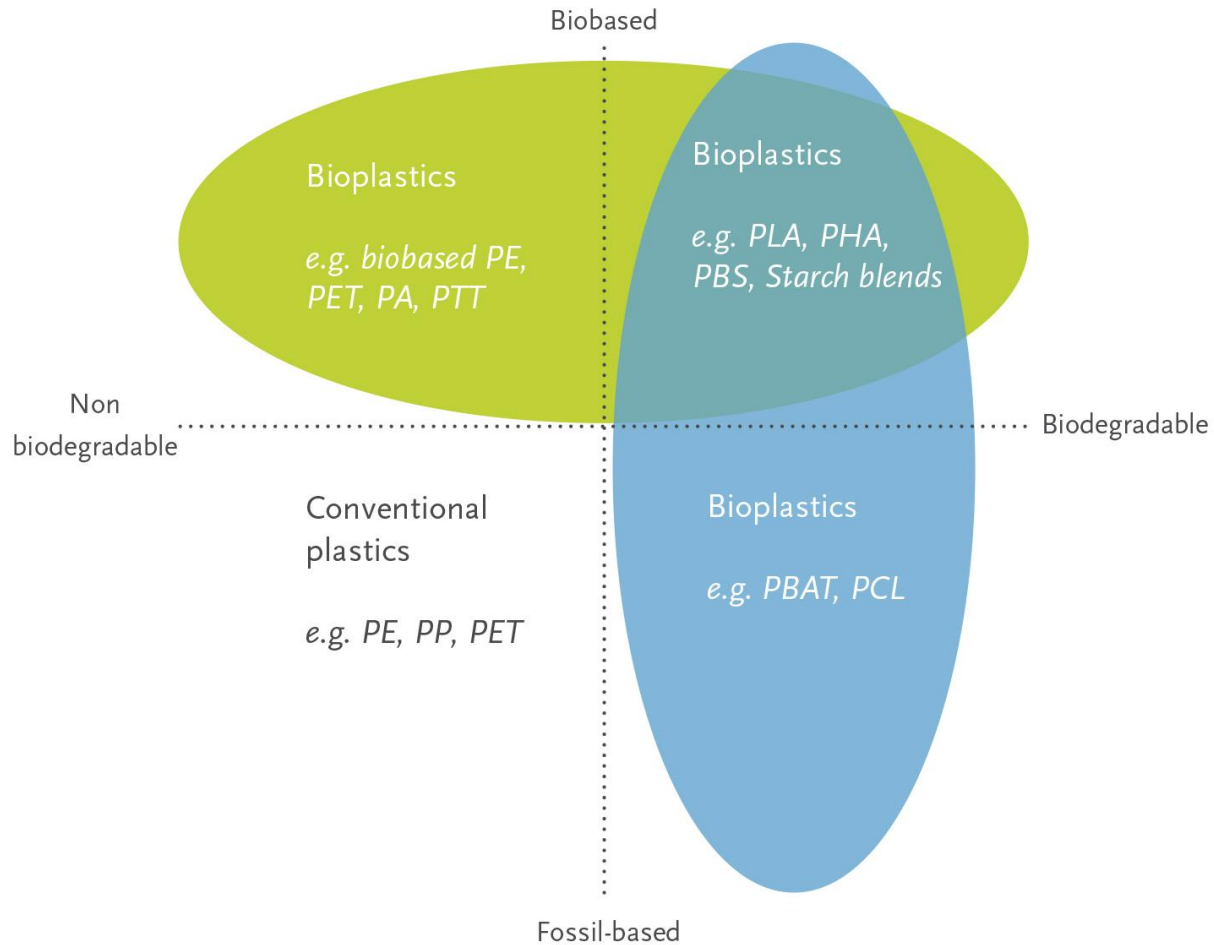
**biodegradable**  
e.g. PBAT



**or both**  
e.g. starch blends



# Material coordinate system for bioplastics



# *Bioplastics cover a multitude of market segments*



Food Packaging



Automotive



Cosmetics /  
Packaging



Catering/Serviceare



Textiles



Electronics



Toys/Leisure



Shopping Bags

## *Benefits of bio-based plastics*

### **Bio-based plastics support the circular economy by**

- **Increasing resource efficiency** – by using bio-based, regrowing feedstock – potentially produced in the EU
- **Supporting recycling of plastic waste** – as the foremost part of bio-based plastics is easily recyclable in within existing waste streams

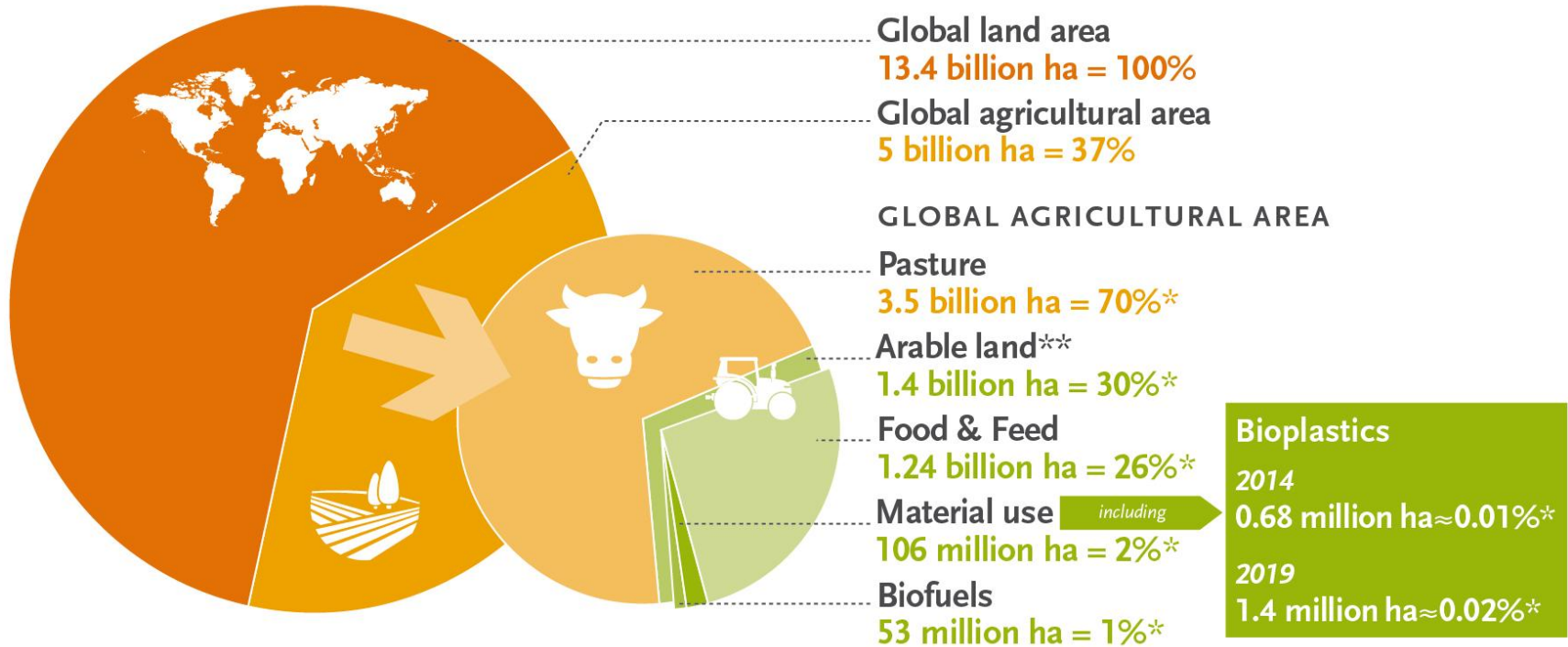


### **While**

- **Reducing CO<sub>2</sub> emissions** – by using biomass and sequestering it in the products
- **Decreasing dependency on oil imports**



# Land-use – no competition to food and feed!



Source: European Bioplastics, Institute for Bioplastics and Biocomposites, nova-Institute (2015).  
 More information: [www.bio-based.eu/markets](http://www.bio-based.eu/markets) and [www.downloads.ifbb-hannover.de](http://www.downloads.ifbb-hannover.de)

\* In relation to global agricultural area  
 \*\* Also includes approx. 1% fallow land

## *Benefits of biodegradable/compostable*

### **Biodegradable/compostable plastics support the circular economy by**

- **Increasing waste management efficiency and reducing GHG emissions** – by diverting biowaste from landfill and other waste streams to organic recycling,
- **Strengthening the EU secondary raw material market** – by supporting the separate collection of biowaste and organic recycling,
- **Providing new properties that help to e.g. prevent food waste** - such as better vapour permeability of packaging that results in longer shelf life.





## *Market development – EU not to miss out on benefits*

- **1 % of global plastics production today** – approx. 2 million tonnes in 2015
- **20-100% growth each year** – production capacities to grow more than 350% by 2019
- **15% produced in EU** – tendency decreasing without favourable regulatory framework
- **10% of EU plastics production could be bioplastics by 2025** – approx. 5.7 million tonnes
- **Equivalent to 160,000 new jobs** – not including jobs created in the waste management sector, which would account for another 20,000-50,000 jobs



## *Bioplastics and the Circular Economy Package*

**With regard to the revision of the waste legislation and in order to realise the full potential of plastics that are bio-based, biodegradable/compostable, or both, EUBP suggests to**

- Ensure the separate collection of biowaste by 2020,
- Include “organic recycling” in the definition of “recycling”,
- Introduce definitions “bio-based“ and “biomass“ in legislation,
- Oblige the separate collection of plastics for Member States,
- Encourage Member States to promote packaging made from bio-based materials,
- Assess the feasibility of gradually replacing food packaging with bio-based and/or biodegradable/compostable material in accordance with European standards.

*Many thanks for your attention!*



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