

# THE ITALIAN MARKET OF COMPOSTABLE BIODEGRADABLE BIOPLASTICS



# Plastic Consult

## *Two business missions*



From 1979

Consulting and business intelligence for the petrochemicals and plastics sector

- Domestic and European sector analyses
- Structural studies
- Continuous monitoring of national markets
- National production statistics
- Support for strategic repositioning (diversification, acquisitions and divestitures)
- Locating industrial and commercial partners



From 2010

Cross-sector economic and financial consulting for small to medium businesses

- Business control
- Financial accounting and cash flow management
- Banking facility management
- Real time profitability and budget analysis monitoring
- Monitoring and revision of cost centres
- Aggregation: start-up consortia, associations and business networks

THE ITALIAN BIODEGRADABLE POLYMERS MARKET

# Contents

1. Size and composition of the sector
2. Sector data

THE ITALIAN BIODEGRADABLE POLYMERS MARKET

# 1. Size and composition of the sector

- Coverage of the study
- The universe
- Plant location
- Employment and business volumes

# Coverage of the study

## Methodology

### Our focus

This report is centred on companies with productions facilities in Italy for transformation of bioplastics, that is polymers being biodegradable and compostable in accordance with the UNI EN 13432 standard.

Manufactured goods are varied so products have been classified by use or production technology according to the following outline:

- Plastic bags and carriers
- Sacks and bag for organic waste collection
- Other film: food packaging film, agricultural film, hygiene film
- Disposables: dishes, cups and cutlery; bowls for deli and catering
- Other injection moulded goods: preforms for bottles, stationary, gift and fancy goods
- Other applications



# Coverage of the study

## Methodology

### Fieldwork (1 of 2)

Based on Plastic Consult database and in-house information originating from recent studies, we conducted a broad field survey that involved direct contact with over 100 companies.

Overall, 77 companies were identified having transformed bioplastics, at least partly in, 2012, exclusively or as a part of their production processes.

At the same time, the potential of spin-off industries was assessed, particularly plastic bags for retail outlets.



# Scope of the study

## *Methodology*

### **Fieldwork (2 of 2) – Focus on shopping bags**

To maintain continuity with the sector analysis conducted last year, we included a specific focus on shopping bags by monitoring production of polyethylene bags in addition to that of compostable bags. We also attempted to round the survey off by estimating import volumes in order to read the domestic market trend.

A number of companies active in the downstream processing of bioplastics were also contacted in order to estimate the overall potential of the sector in terms of the number of companies and their business volumes, in preparation for a more detailed analysis of the entire sector.





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# 1. Size and composition of the sector

- Coverage of the study
- The universe
- Plant location
- Employment and business volumes



# The universe

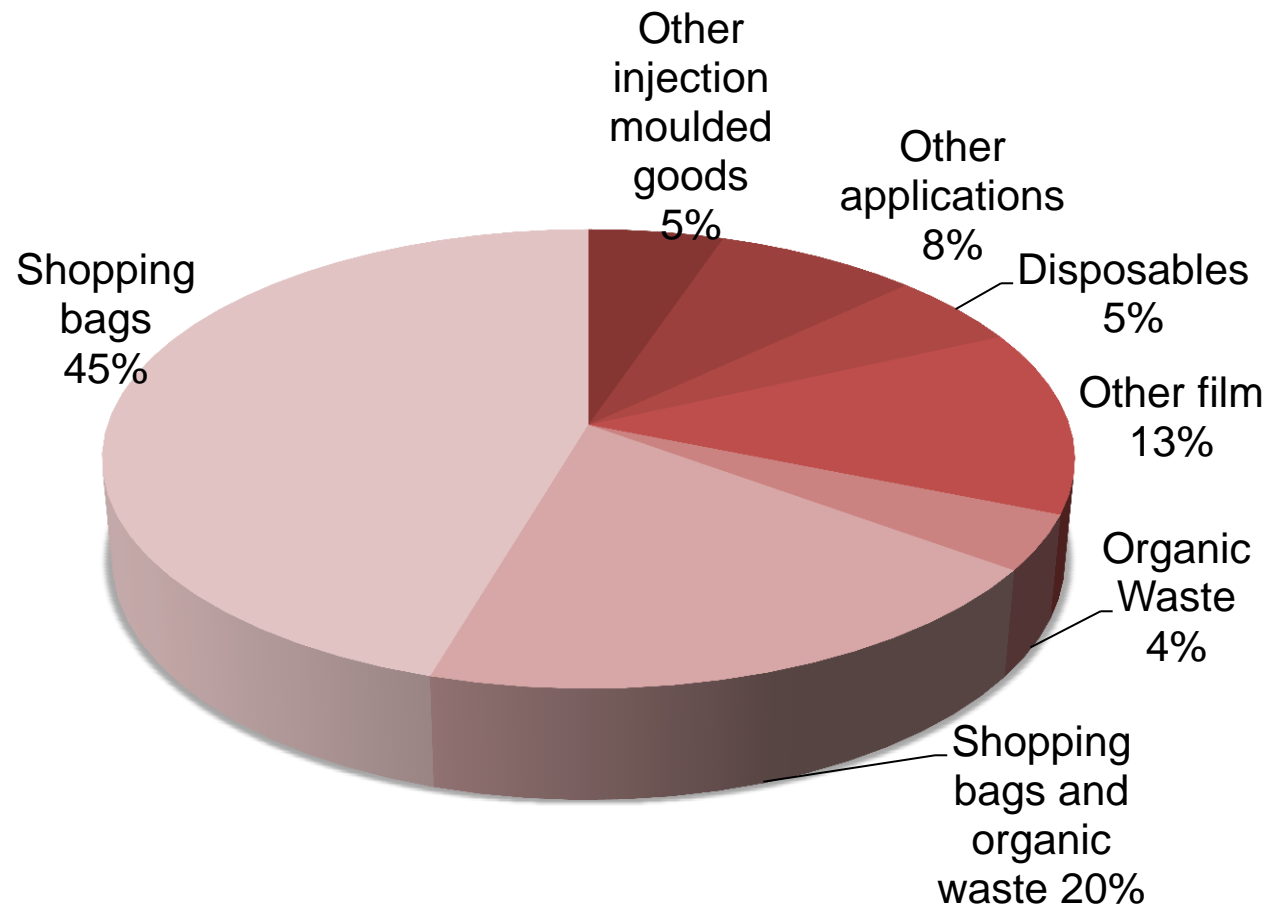
## *Bioplastics– Number of companies*



\*2011 data, including producers of non-biodegradable bags

# The universe

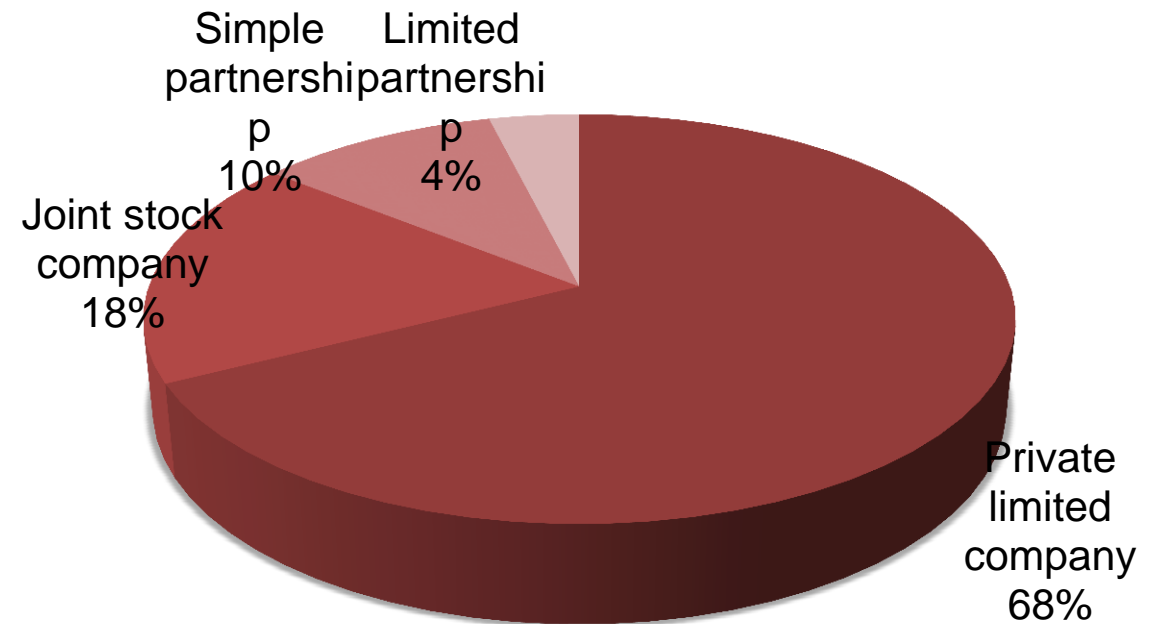
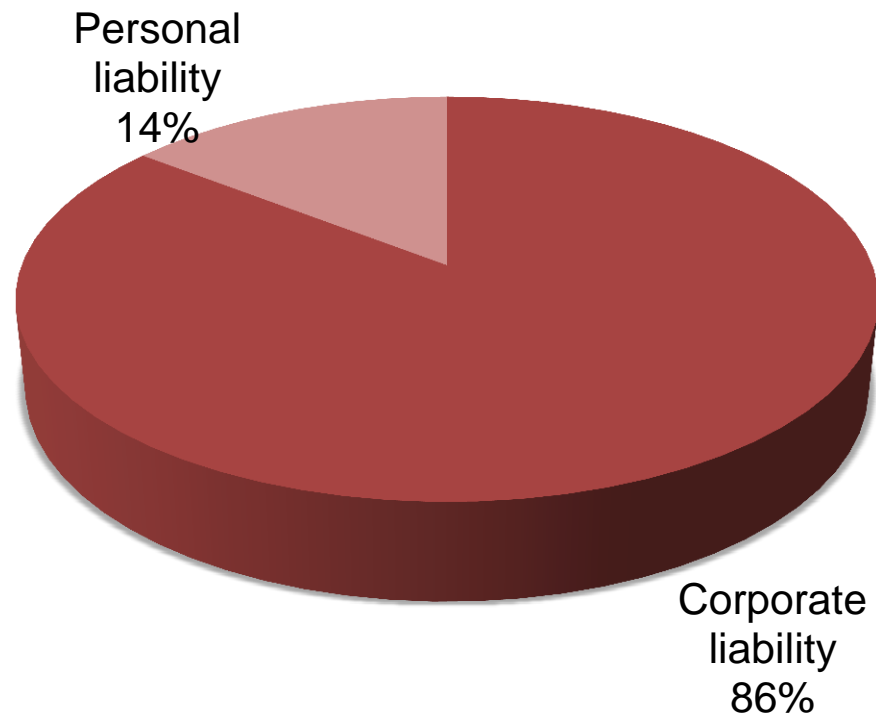
## Bioplastics - Company specialisations



Total: 77 companies

# The universe

## Bioplastics – Types of companies



Total: 77 companies

THE ITALIAN BIODEGRADABLE POLYMERS MARKET

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# Plant location

## Regional distribution of facilities

	Number of companies	%
ABRUZZO	2	2.6
CALABRIA	1	1.3
CAMPANIA	6	7.8
EMILIA ROMAGNA	8	10.4
FRIULI VENEZIA GIULIA	2	2.6
LATIUM	2	2.6
LIGURIA	3	3.9
LOMBARDY	13	16.9
MARCHE	4	5.2
PIEDMONT	8	10.4
PUGLIA	2	2.6
SARDINIA	3	3.9
SICILY	7	9.1
TUSCANY	3	3.9
UMBRIA	3	3.9
VENETO	10	13.0
<b>TOTAL</b>	<b>77</b>	<b>100.0</b>

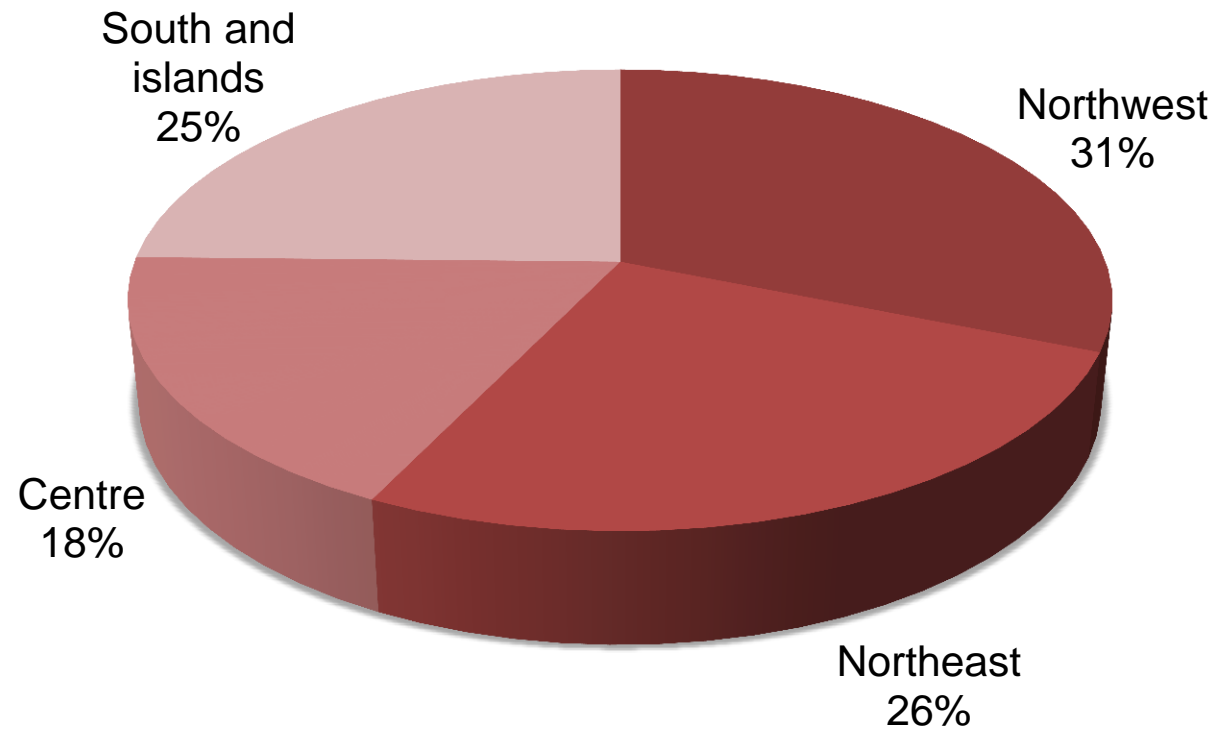
*The 5 leading regions:*

- Lombardy
- Veneto
- Sicily
- Piedmont
- Emilia Romagna

*Account for 60% of the companies in the sector*

## Plant location

### *Breakdown of facilities by geographical area*

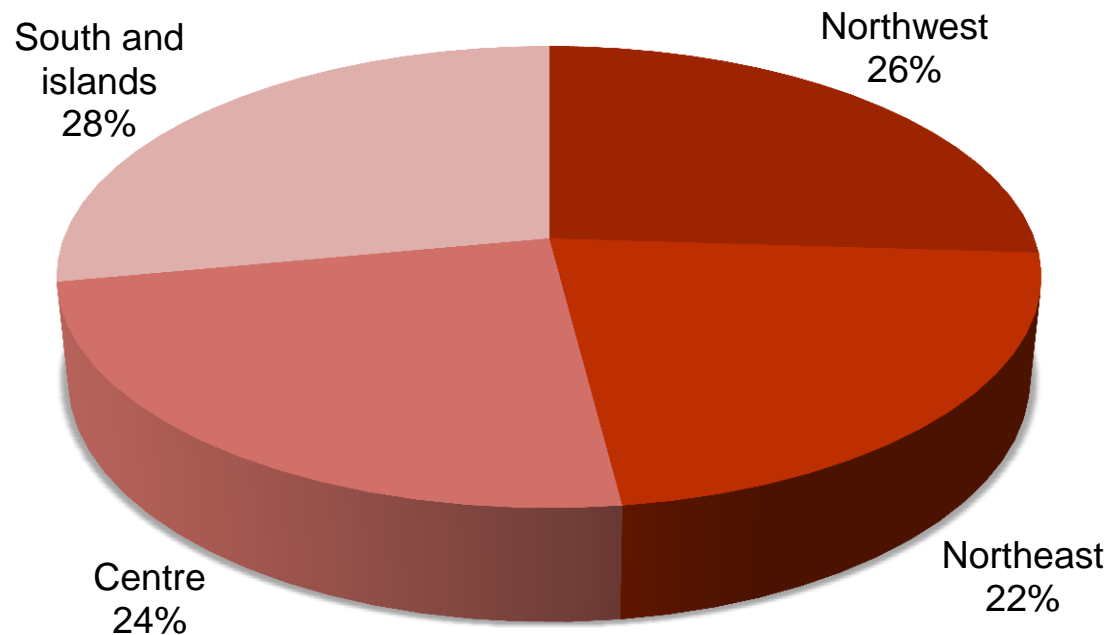


Total: 77 companies

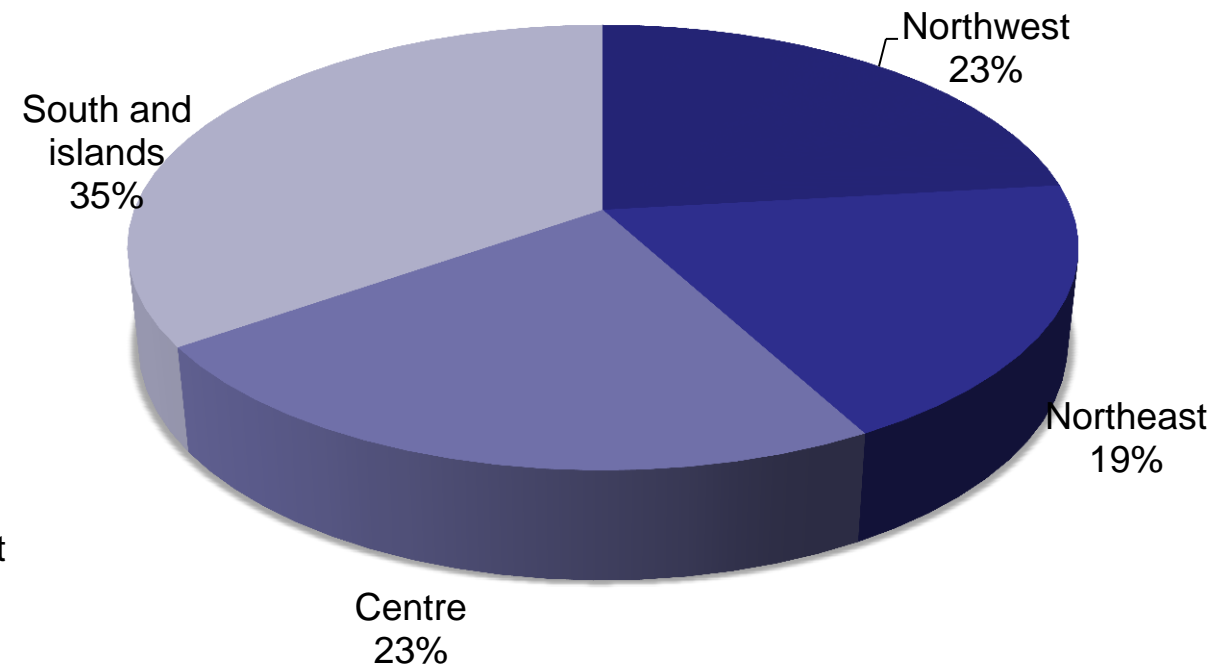
## Plant location

### *Comparison between compostable bags and all bags*

Compostable bags  
50 companies



All bags  
95 companies\*\*



\*\*2012 data, producers of biodegradable bags only

\*\*2011 data, including producers of non-biodegradable bags



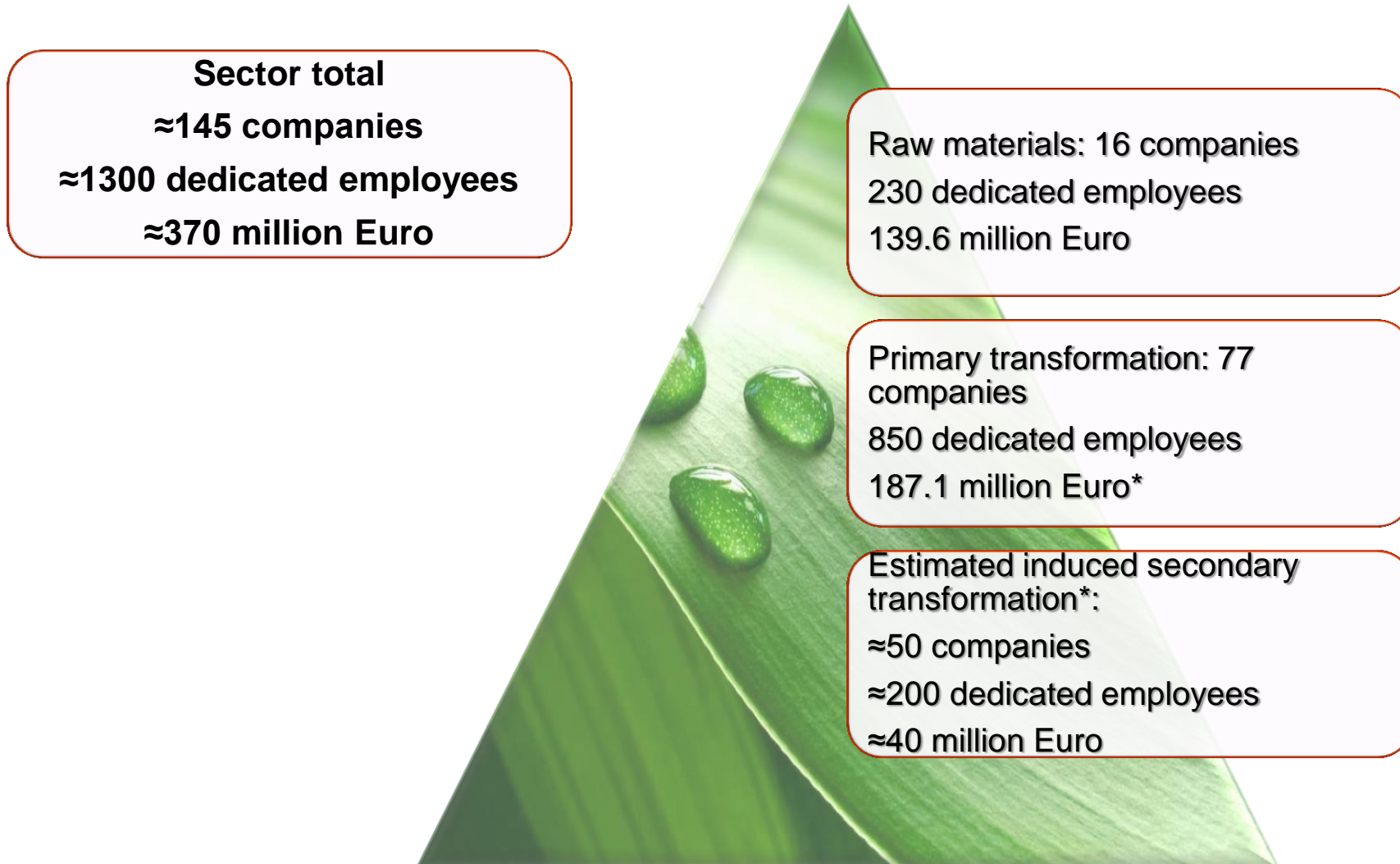
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# Employment and business volumes

## *The domestic bioplastics sector- 2012*



\* Product value at ex-works prices

# Employment and business volumes

## *Aggregate data for the bioplastics sector*

	2012 data	Percent
<b>Producers of raw materials*</b>		
Companies active in Italy (no.)	16	-
Members of Assobioplastiche (no.)	7	44%
Total biopolymer volume (tons)	39,250	-
Assobioplastiche members volume (tons)	38,000	97%
Raw materials sales total (€ mln)	139.6	-
Assobioplastiche members sales (€ mln)	135.4	97%
<b>Product manufacturers</b>		
Companies active in Italy (no.)	77	-
Assobioplastiche members (no.)	16	21%
Total biopolymer volume (tons)	39,250	-
Assobioplastiche members volume (tons)	23,050	59%
Biodegradable products sales (€ mln)	187.1	-
Assobioplastiche members sales (€ mln)	114.1	61%
Biodegradable products workforce (no.)	850	-
Assobioplastiche members workforce (no.)	350	42%

\* Polymers and ready-to-use compounds, excluding chemical intermediates. Sales companies and agents of foreign producers also included.

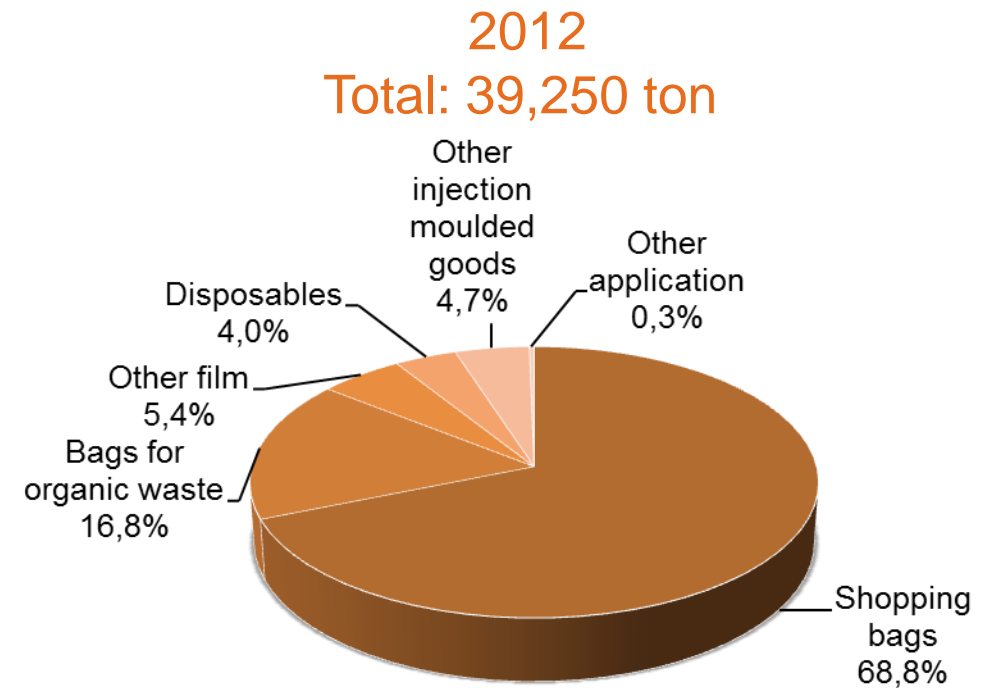
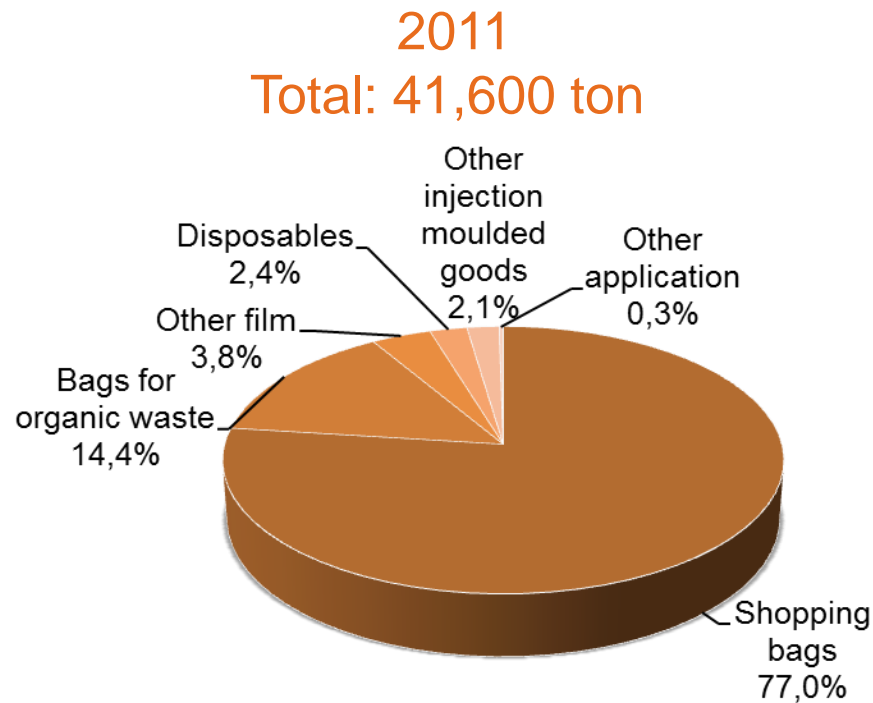
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## 2. Sector data

- Compostable products manufacturing
- Focus on shopping bags
- Factors impacting sector growth

## Sector data

### Breakdown of compostable products manufacturing by type



**Other film:** for foodstuffs, for use in agriculture and for sanitary use

**Disposables:** dishes, cups and cutlery; food packaging for sales and catering

**Other injection moulded goods:** blanks for bottles, writing materials and household objects

**Other applications:** masterbatches, extrusion coating, thermoforming and other products

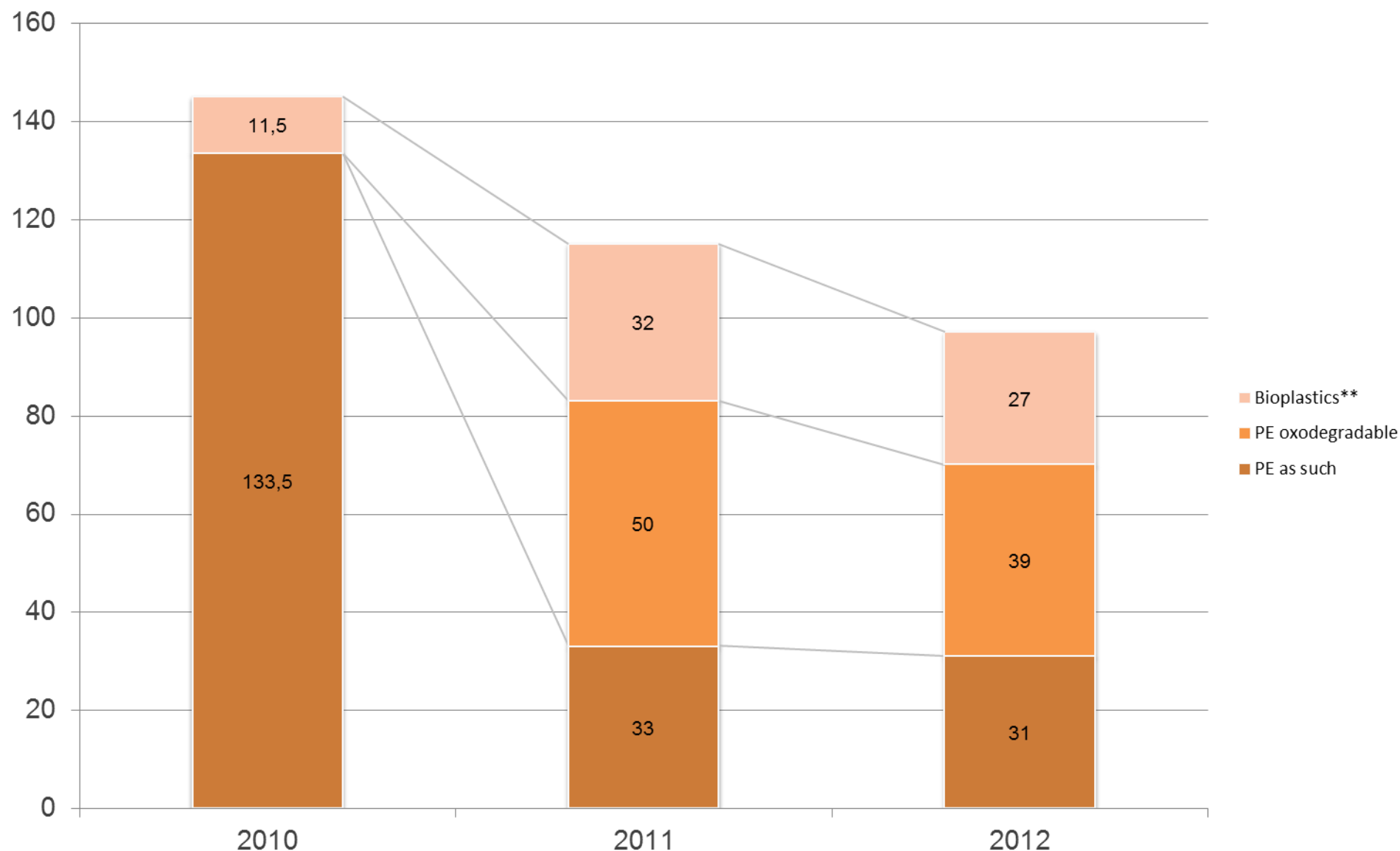
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# Shopping bag segment data

## Manufacturing trend - shopping bag segment (Kton)



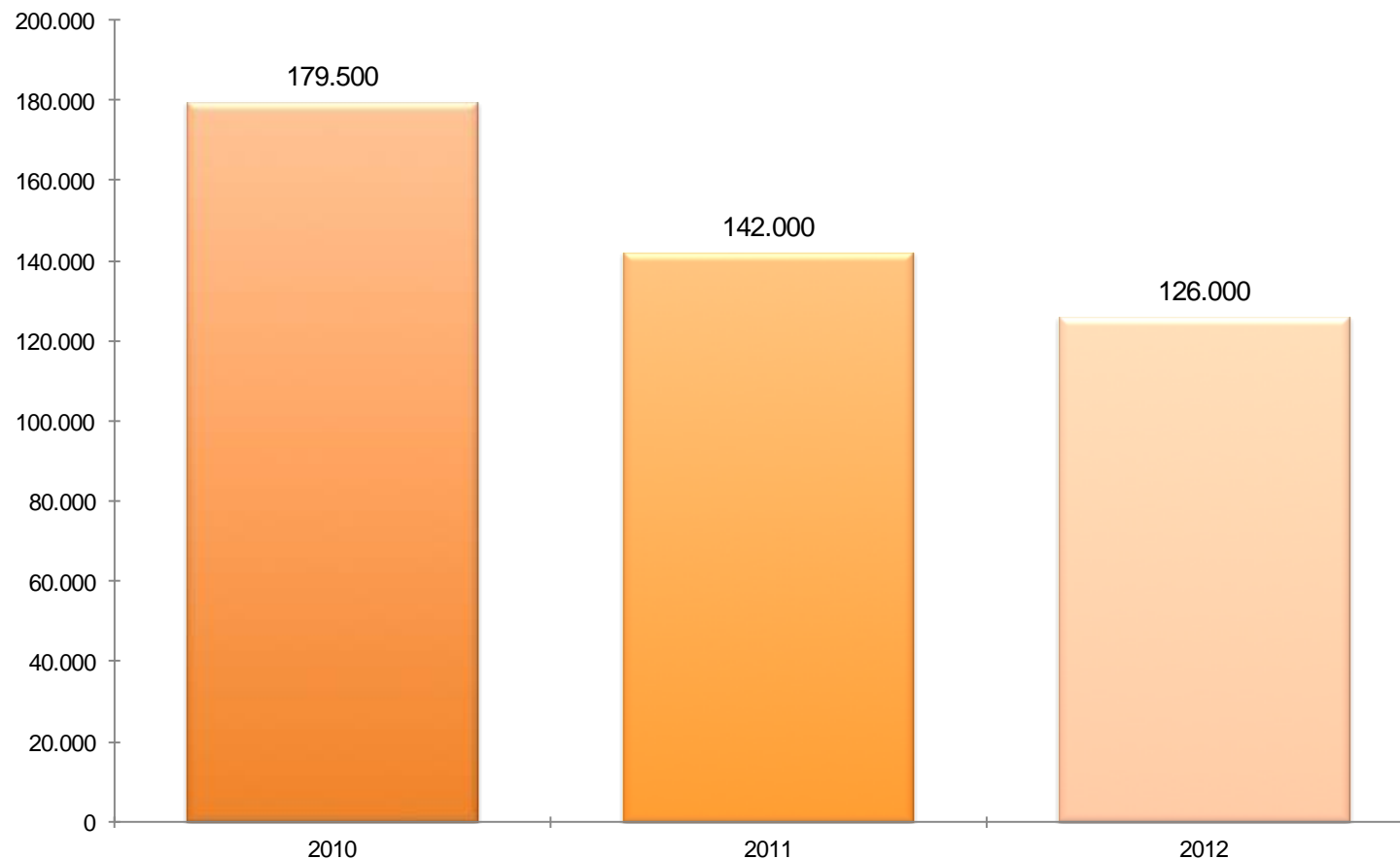
\* PE with additives inducing biodegradability

\*\* Biodegradable and compostable polymers in accordance to UNI EN 13432 standard



## Sector data

### *Disposable shopping bag market forecast 2010 -2012*



Downward trend of domestic production

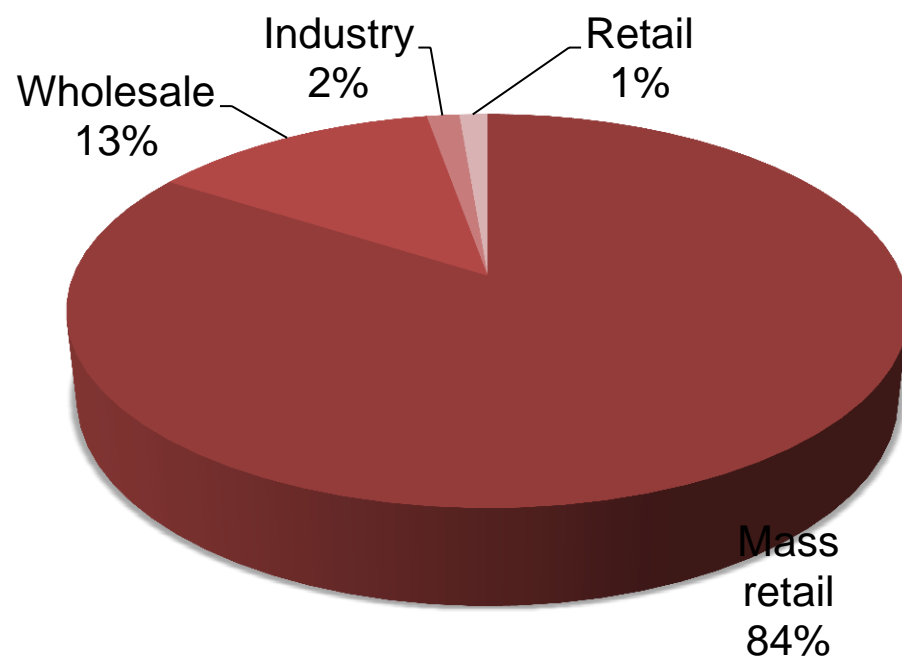


Imports stable in 2012

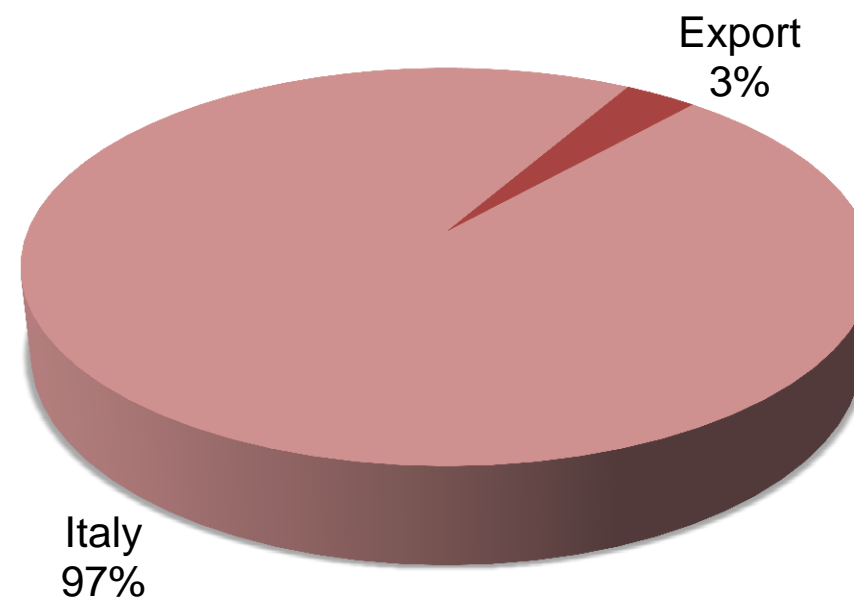
# Compostable shopping bags in 2012

## *Sales and export channels*

### Sales channels



### Destination



Total: 27,000 ton

# Compostable shopping bag manufacturing

## *Company specialisation in the shopping bag segment - 2012*

Level of specialisation in shopping bag manufacturing	Number of companies	%
Less than 10%	9	18
From 10% to 20%	8	16
From 21% to 50%	9	18
Specialised (50% and above)	24	48
	50	100

50 Converters of bioplastics

Average level of  
specialisation: 44%

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# Factors impacting sector growth

## *Most influential factors*

### Shopping bags

- Postponement of the European Commission decision concerning national legislation extends uncertainty and is a brake on both demand and investments in the sector.
- Public debate in Europe on waste management, GPP and marine litter makes further important developments in the segment more likely

### Bags for organic waste

- Diffusion of separate collection of organic waste drives expansion of the sector (+10% volume in 2012)
- Companies invest in the sector by expanding the product range (3 new entries in the segment in 2013)

### Other food applications

- An excellent environmental image facilitates development of all the main applications such as bottles, disposables and food packaging film.
- Diffusion of separate collection of food wastes from catering services and at public events

### Other non-food applications

- Improvements in the technical characteristics of raw materials are facilitating developments of film for use in agriculture
- The true potential of start-up applications such as paper film laminates still to be checked

## We recently worked for



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