

## Introduction

Welcome to the latest issue of CEPI's Annual Trade Statistics, covering data for 2016

CEPI was founded in 1992 and annual statistics cover the period 1991 – 2016. CEPI represents 92% of the European\* pulp and paper industry in terms of production.

The Confederation of European Paper Industries (CEPI) is a Brussels-based non-profit making organisation, which represents the European pulp and paper industry towards the European Institutions. Through its member associations, CEPI also represents approximately 495 pulp, paper and board producing corporations across Europe, ranging from small and medium-sized enterprises, to multinationals (counting companies with a presence in more than one CEPI country only once).

\* Europe minus Russian Federation.

## Members of CEPI in 2016

The National Associations of the 18 following countries: Austria, Belgium, Denmark, Finland, France, Germany, Hungary, Italy, The Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Sweden, United Kingdom.

## Data Collection

This report mainly aggregates data from 2015 provided by CEPI member National Associations and, where it is complemented by data other than from CEPI member National Associations, the sources are clearly stated (in most cases this is Eurostat and other foreign paper industry organisations).

The data result from the annual questionnaires sent by CEPI to its members. The national associations supply the data, which they collect from their member companies plus official sources where appropriate.

Notes and definitions related to the terms used in this report can be found on pages 77 to 83.

## Data Quality



Responsibility for the collection and the management of the statistical data lies with the CEPI statistics department, which is constantly working to improve the quality of the data reported. In order to further increase the reliability and credibility of the data reported, CEPI has commissioned Deloitte to issue a limited assurance statement on the data quality rating that CEPI carried out on its core indicators in the statistics report. The detailed data quality rating and the limited assurance statement will be available soon on <http://www.cepi.org/members/statistics/annual-statistics>

## Definitions

More information and details related to the definitions and descriptions of terms and categories used in the European Paper Industry can be found in the new CEPI booklet "Pulp and Paper Industry - Definitions and Concepts".

<http://www.cepi.org/topics/statistics>

## More Information

For more information on statistics and the other CEPI reports, please contact:

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### Sources\*

CEPI - Data received by the National Associations

Eurostat

GTIS - Global Trade Information System

RISI - Resource Information Systems Inc

ECB - European Central Bank

\* Some discrepancies may occur because of the various sources used.

*Introduction*

## CEPI Pulp and Paper Industry

### 2016 compared to 2015

#### Total Paper and Board

Exports by CEPI countries decreased by 0.3% (-56,000 tonnes).

Imports into CEPI countries increased by 4.5% (+240,000 tonnes).

The result is that the trade balance (exports-imports) decreased by 2.1% (-296,000 tonnes).

The major destinations of exports in 2016 were Other European Countries (38%), Asia (26%), Africa (13%) and USA (11%).

The main grades exported were coated graphics (22%), carton boards (21%) and uncoated graphics (17%).

The main sources of imports in 2016 were USA (23%), Switzerland (19%) and Russian Federation (9%).

The main grades imported were case materials (31%) and carton board (18%).

#### Market Pulp

Exports by CEPI countries increased by 17.8% (+576,000 tonnes).

Imports into CEPI countries increased by 0.2% (+18,000 tonnes).

The result is that the trade balance (exports-imports) increased by 11.5% (+559,000 tonnes).

The major destinations of exports in 2016 were China (45%), other Asian countries (23%) and Other European Countries (23%).

The main grades exported were sulphate pulp (78%) and mechanical pulp (10%).

The main sources of imports in 2016 were Brazil (50%), USA (14%) and Uruguay (13%).

The main grade imported was sulphate pulp (91%).

#### Wood

Wood imports represent 15.1% of the total amount of wood consumed by the European pulp & paper industry. It amounts to 16.5 million tonnes, 75% is roundwood and 25% chips.

The main sources of imports in 2016 were Other EU Countries (38%) Russia (35%) and Belarus (14%).

#### Paper for Recycling

Exports by CEPI countries increased by 5.6% (+569,000 tonnes).

Imports into CEPI countries increased by 1.7% (+33,000 tonnes).

The result is that the trade balance (exports-imports) increased by 6.6% (+536,000 tonnes).

The major destinations of exports in 2016 were China (77%), Indonesia (5%) and India (4%).

The main grade exported was 470710 - corrugated and kraft (70%).

#### Notes

The exports considered are the exports to Non CEPI countries.

They do not include internal deliveries or trade between CEPI countries.

The imports considered are the imports from Non CEPI countries.

They do not include internal deliveries or trade between CEPI countries.

The list of CEPI Countries can be found on page 77.

**Pulp and Paper Industry in CEPI Countries**

'000 Tonnes	1991	2000	2005	2010	2015	2016	% Chg vs. 2015	% Chg vs. 2000
-------------	------	------	------	------	------	------	-------------------	-------------------

**Paper and Board**

Exports

Imports

Trade Balance

Production

Consumption (Apparent)\*

Exports / Production

Imports / Consumption

**Market Pulp**

Exports

Imports

Trade Balance

Production

Consumption\*

Exports / Production

Imports / Consumption

**Paper for Recycling\***

Exports

Imports

Trade Balance

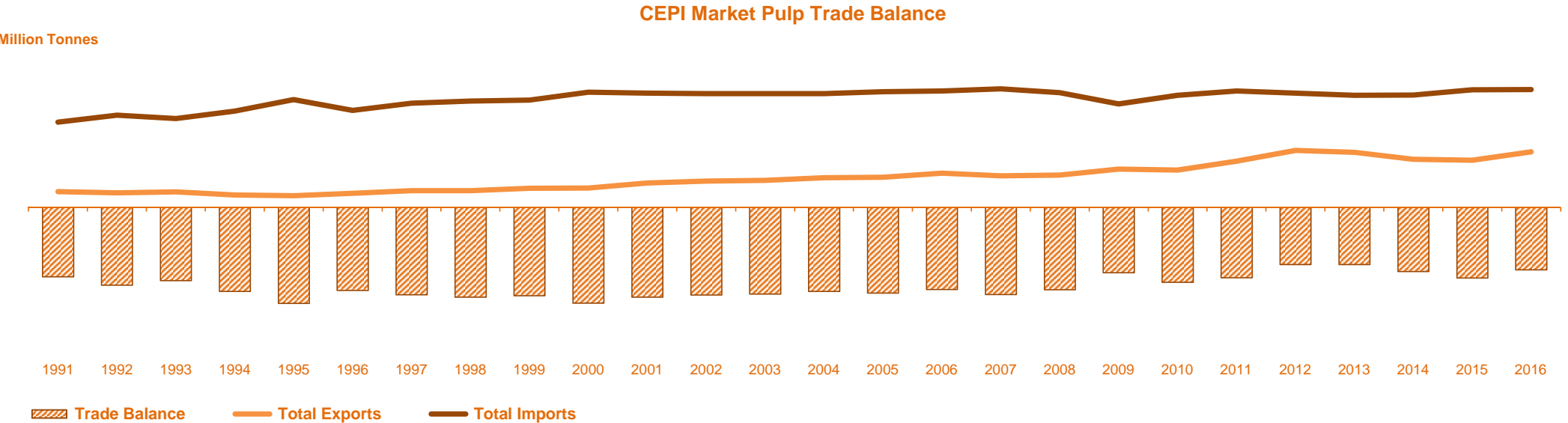
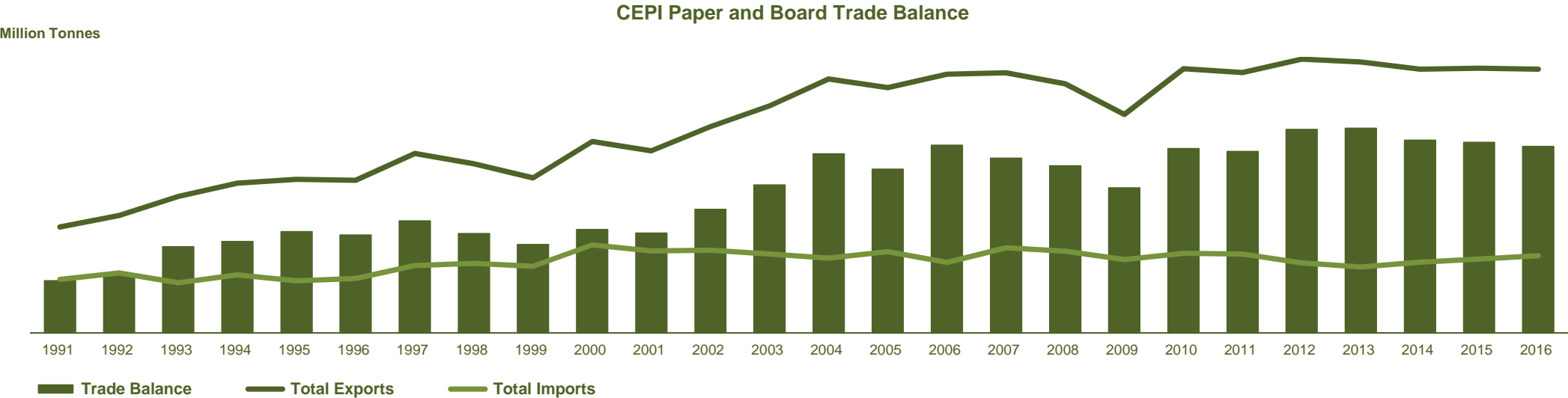
Collection\*

Utilisation

Export/Collection

Imports/Utilisation

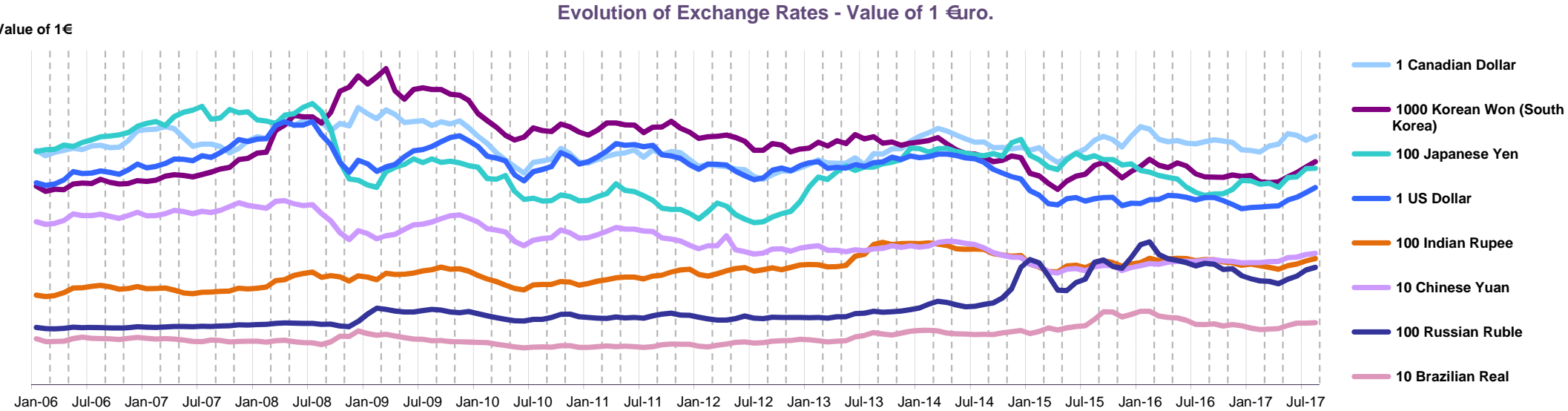
\* See definitions pages 77 to 79



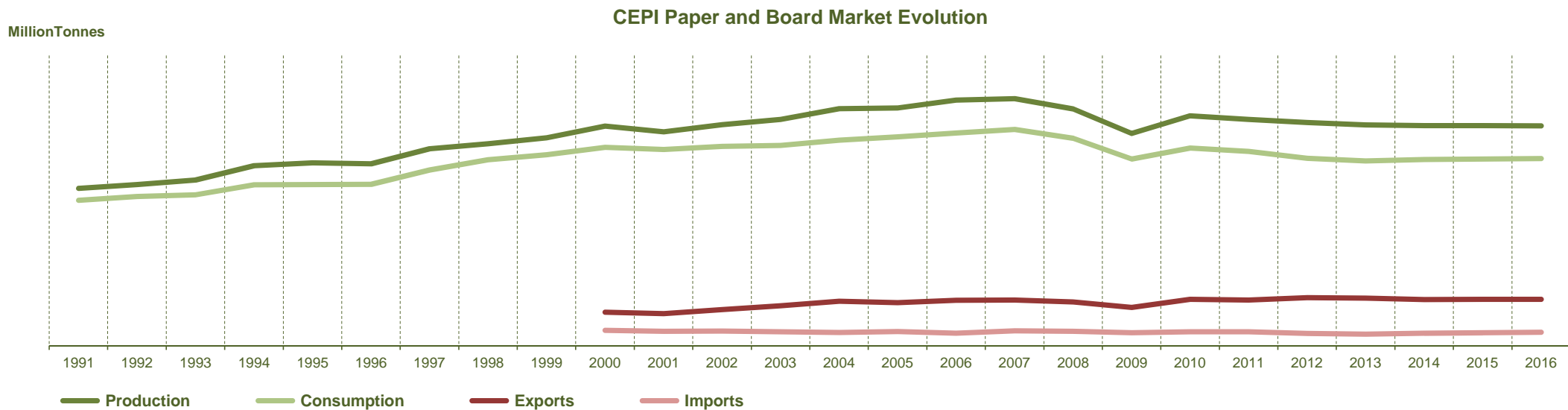
Annual Average of Monthly Data\*

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Minimum 2006 - Aug 2017	Min Date	Maximum 2006 - Aug 2017	Max Date	Average 2006 - Aug 2017
10 Chinese Yuan																
1 US Dollar																
100 Japanese Yen																
1 Canadian Dollar																
1000 S. Korean Won																
100 Russian Ruble																
10 Brazilian Real																
100 Indian Rupee																

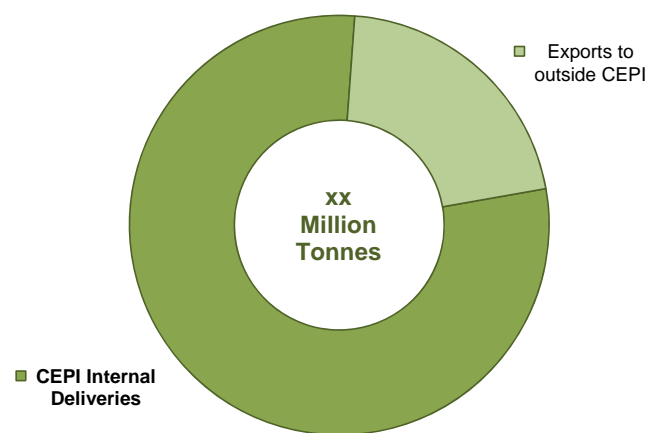
Sources: ECB - European Central Bank



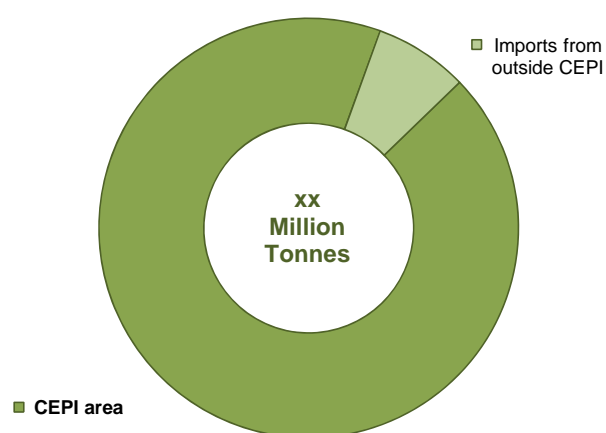
\*Euro v Yuan, Yen, USD, Canadian Dollar, Korean Won, Russian Ruble, Indian Rupee and Brazilian Real (Ecu before 2002) - Source: ECB



**CEPI Production Destination in 2016**

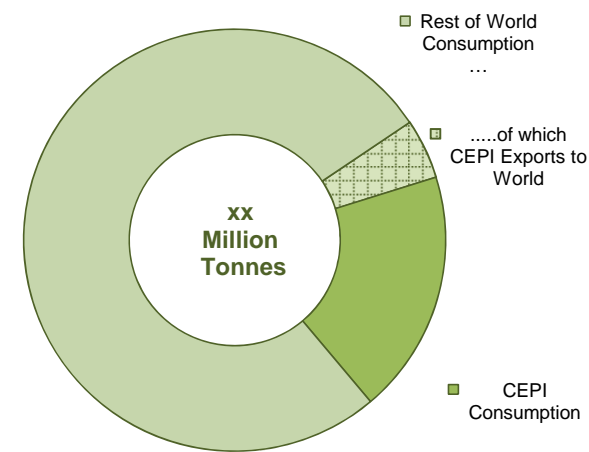


**CEPI Consumption Origin in 2016**

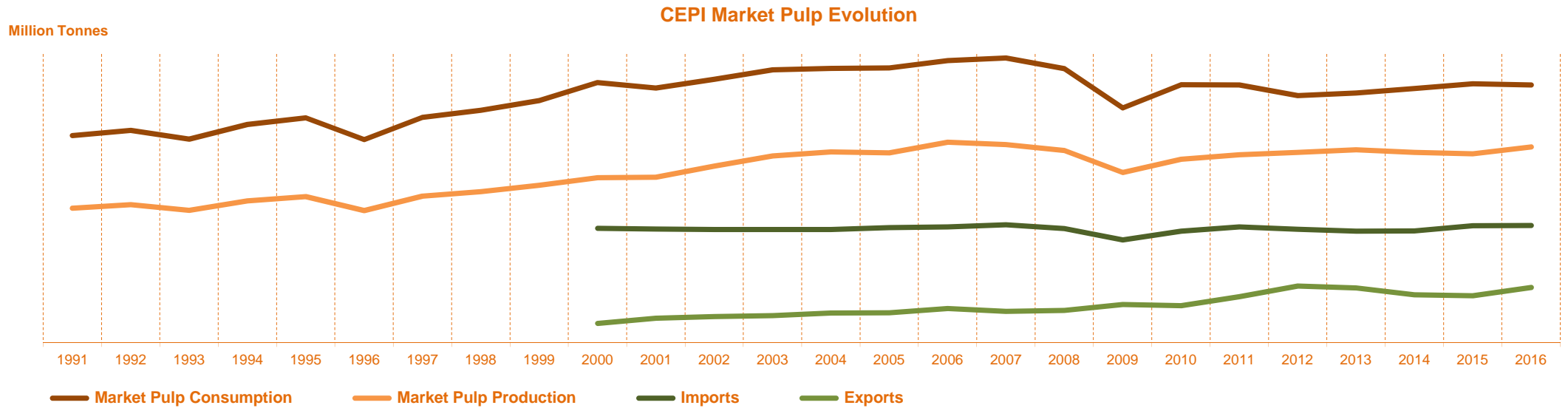


CEPI area = production - exports to outside CEPI

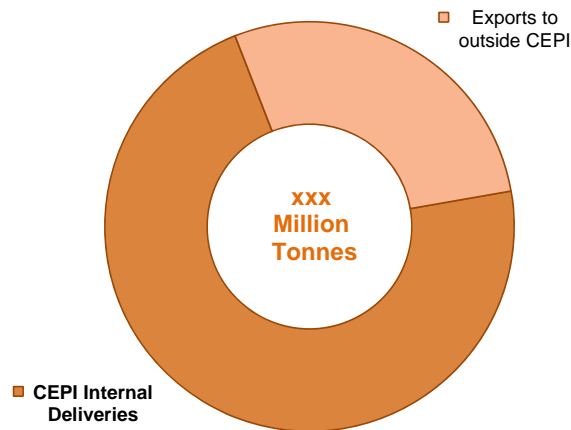
**CEPI Exports and World Consumption in 2016**



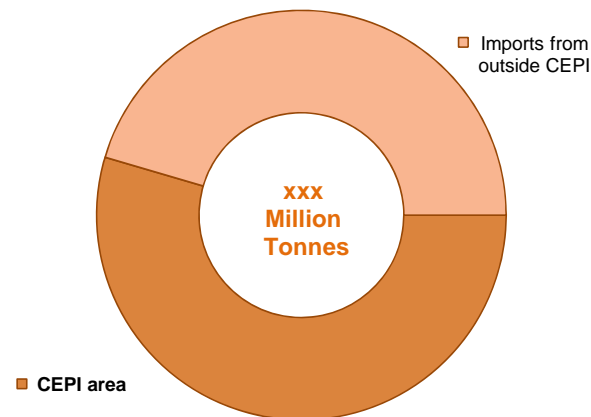
Source: CEPI estimation



CEPI Production Destination in 2016

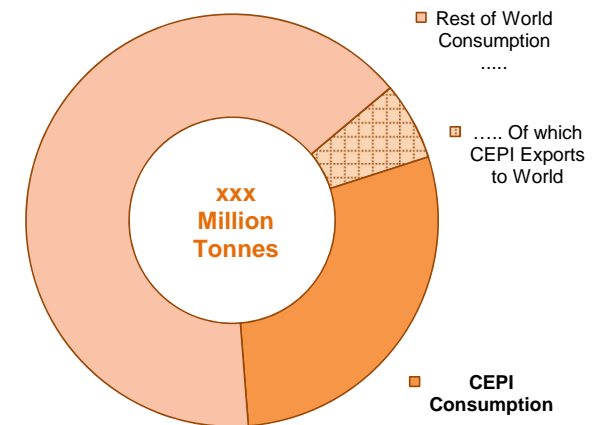


CEPI Consumption Origin in 2016



CEPI area = integrated production + intra-CEPI trade

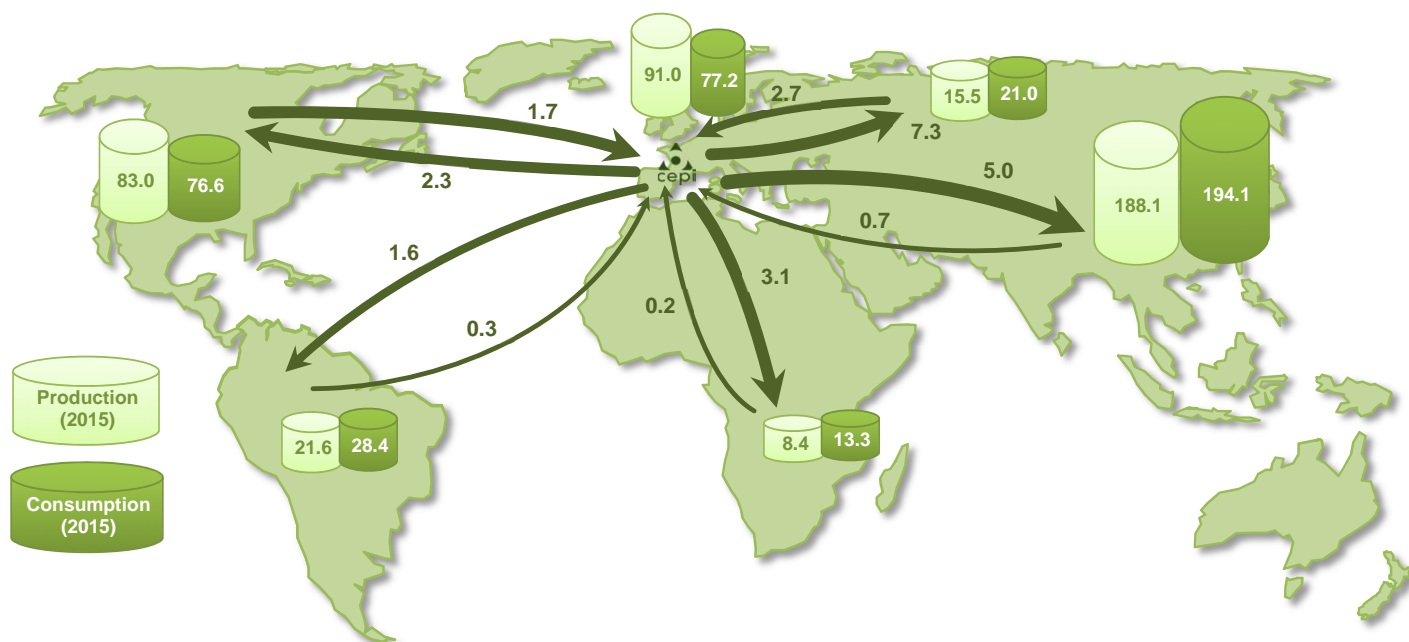
CEPI Exports and World Consumption in 2016



Source: Hawkins Wright - CEPI



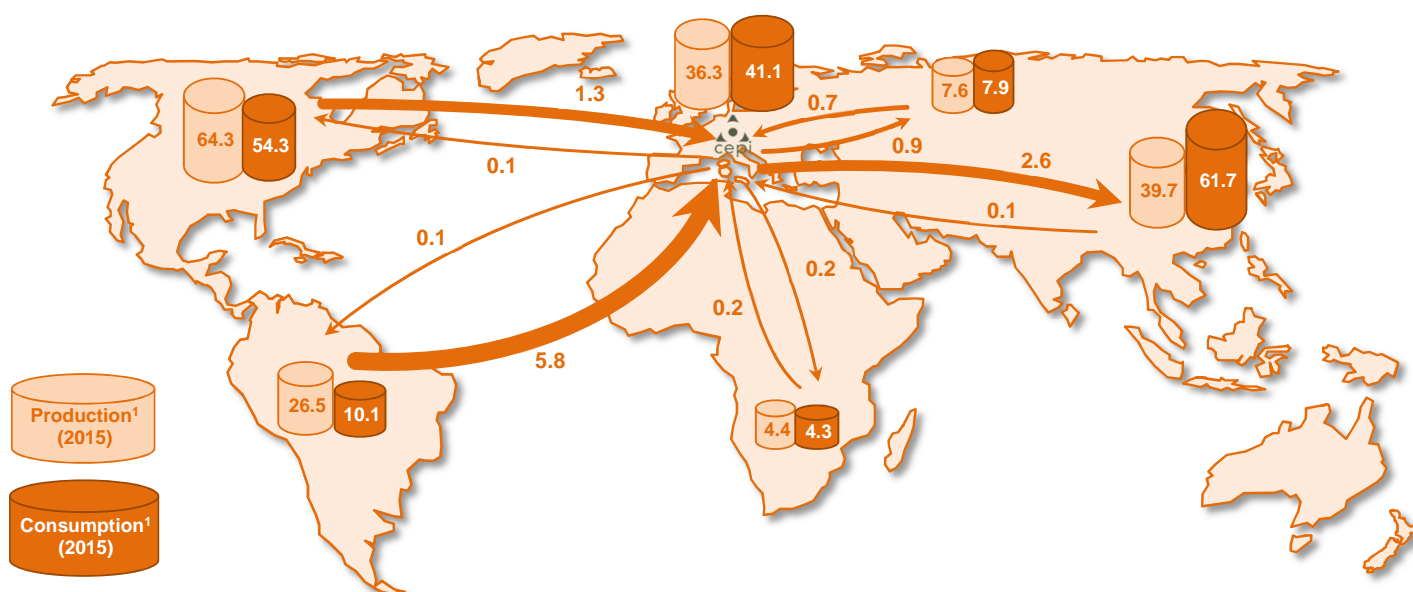
**CEPI Trade Flows of Paper and Board in 2016 (Million Tonnes)**



**Total Imports to CEPI: 5.6 Million Tonnes**

**Total Exports from CEPI: 19.1 Million Tonnes**

**CEPI Trade Flows of Market Pulp in 2016 (Million Tonnes)**

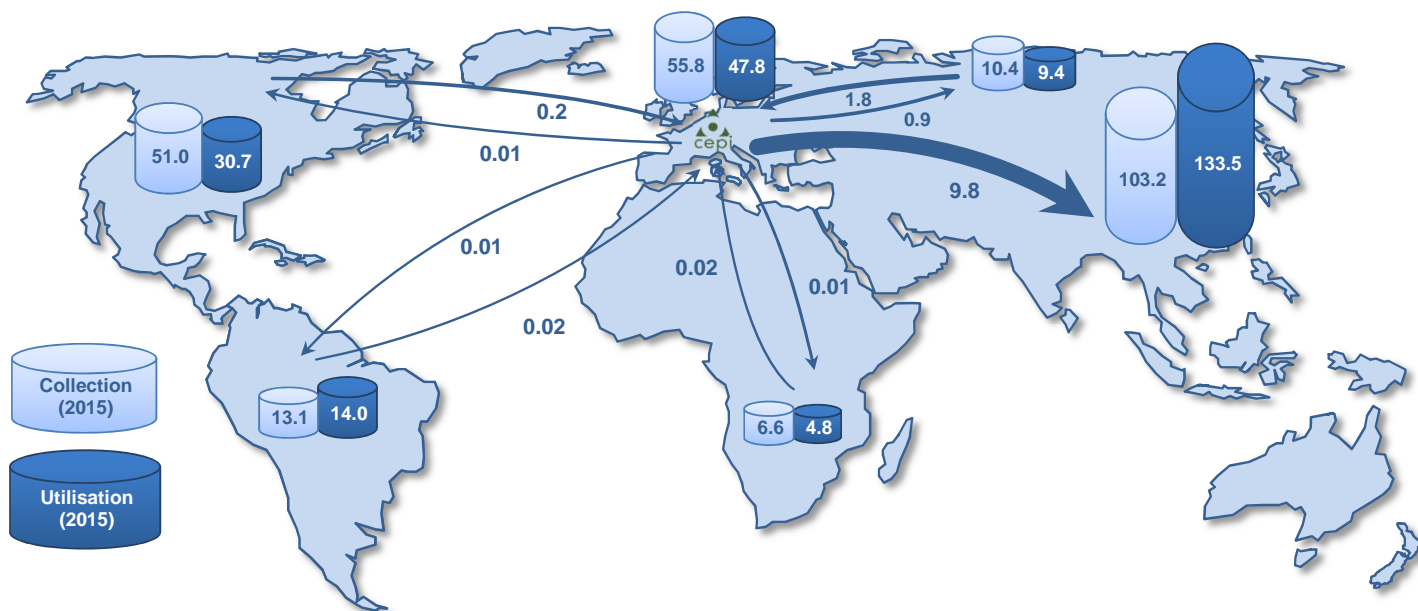


**Total Imports to CEPI: 8.1 Million Tonnes**

**Total Exports from CEPI: 3.8 Million Tonnes**

<sup>1</sup> Production and consumption of total pulp (market and integrated)

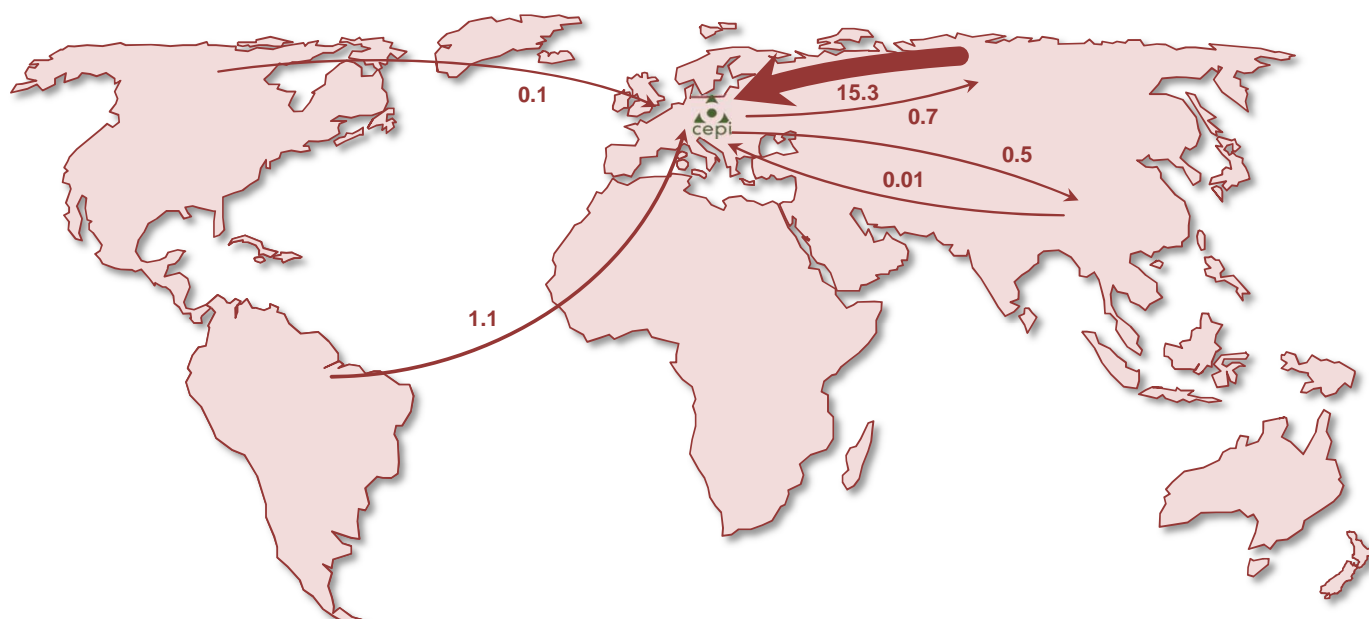
**CEPI Trade Flows of Paper for Recycling in 2016 (Million Tonnes)**



Total Imports to CEPI: 2.0 Million Tonnes

Total Exports from CEPI: 10.7 Million Tonnes

**CEPI Trade Flows of Wood in 2016 (Million Tonnes)**

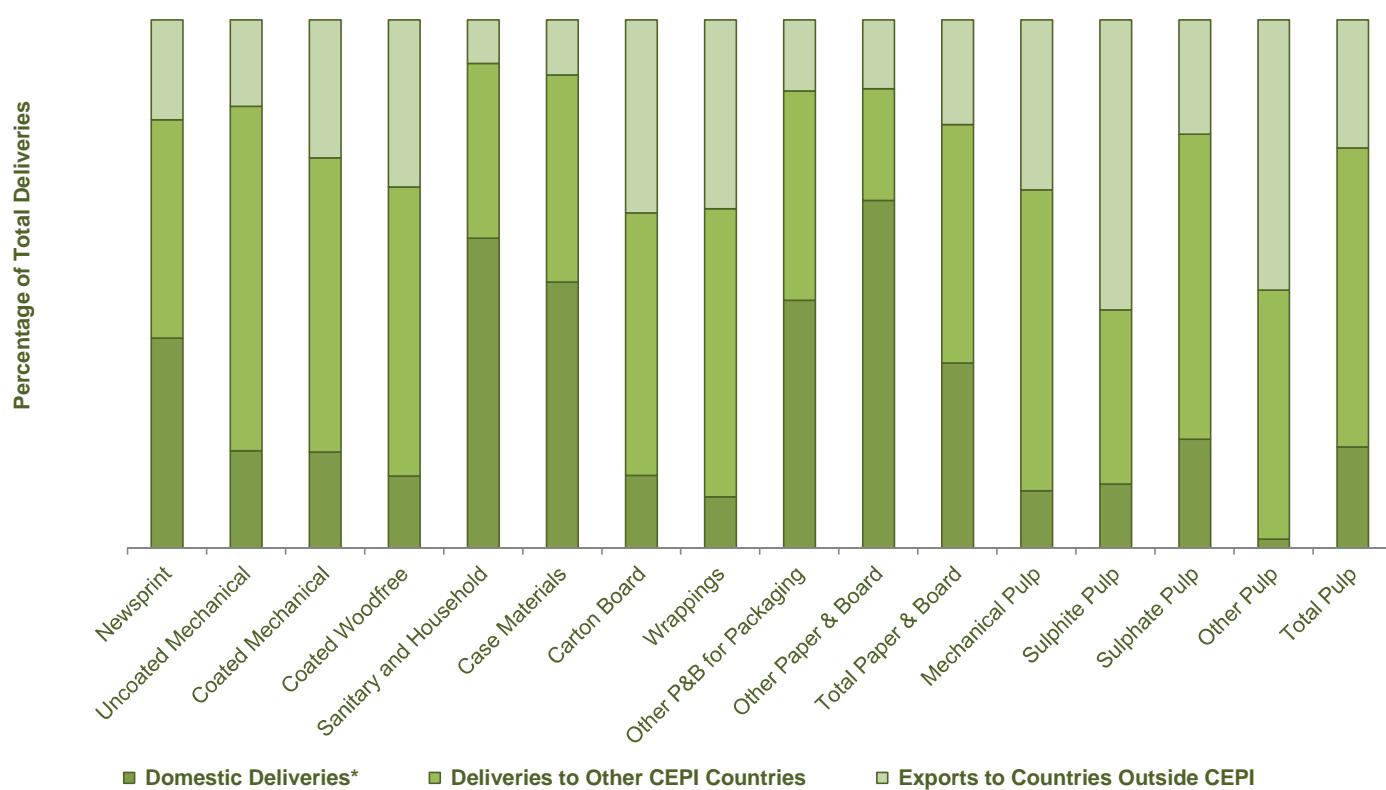


Total Imports to CEPI: 16.5 Million Tonnes

Total Exports from CEPI: 1.2 Million Tonnes

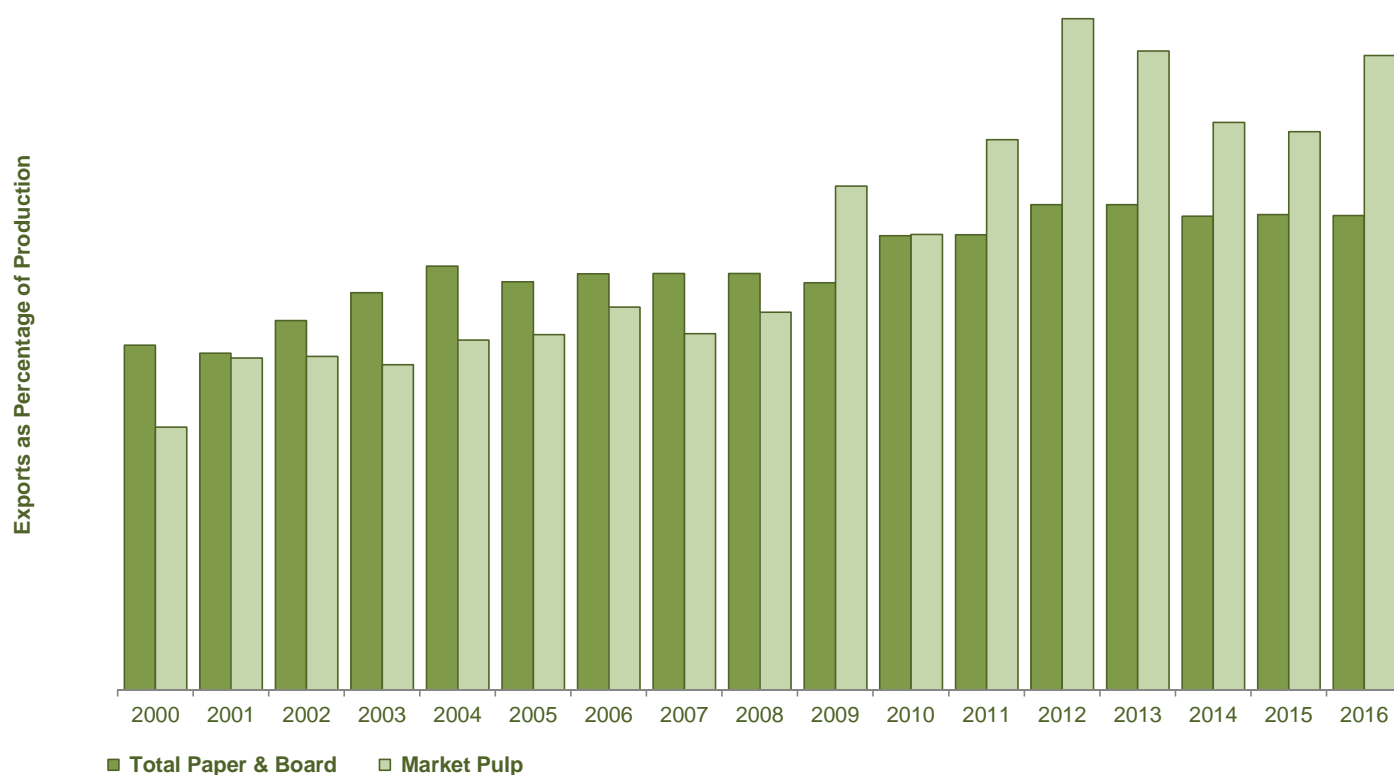
Source: Eurostat

Share of Deliveries and Exports by Grade in 2016




\* Domestic Deliveries = Deliveries within the same country.

Exports of Paper &amp; Board and Market Pulp as Percentage of Production




## CEPI Internal Deliveries of Paper and Board by Country in 2016

'000 Tonnes		AT	BE	CZ	FI	FR	DE	HU	IT	NL	NO	PL	PT	RO	SK	SI	ES	SE	UK	Total CEPI
Austria																				
Belgium																				
Czech Republic																				
Finland																				
France																				
Germany																				
Hungary																				
Italy																				
Netherlands																				
Norway																				
Poland																				
Portugal																				
Romania																				
Slovakia																				
Slovenia																				
Spain																				
Sweden																				
United Kingdom																				
<b>Total CEPI</b>																				

## CEPI Exports of Paper and Board by Country in 2016

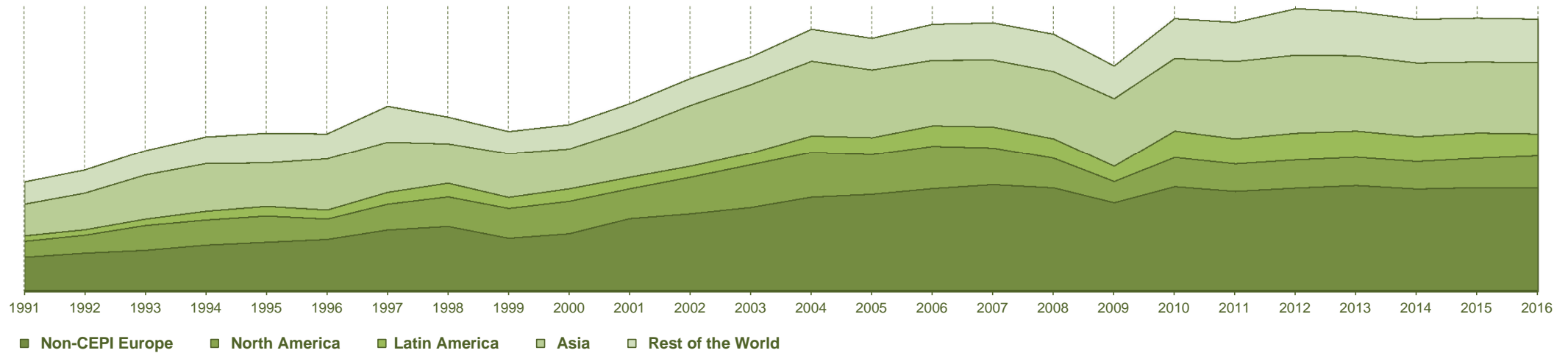
'000 Tonnes		Bulgaria	Croatia	Cyprus	Denmark	Estonia	Greece	Ireland	Latvia	Lithuania	Lux	Malta	Non-CEPI EU Countries	Russian Federation	Turkey	Switzerland	Other Europe	Total Non-CEPI Europe
Austria																		
Belgium																		
Czech Republic																		
Finland																		
France																		
Germany																		
Hungary																		
Italy																		
Netherlands																		
Norway																		
Poland																		
Portugal																		
Romania																		
Slovakia																		
Slovenia																		
Spain																		
Sweden																		
United Kingdom																		
<b>Total CEPI</b>																		

## CEPI Exports of Paper and Board by Country in 2016

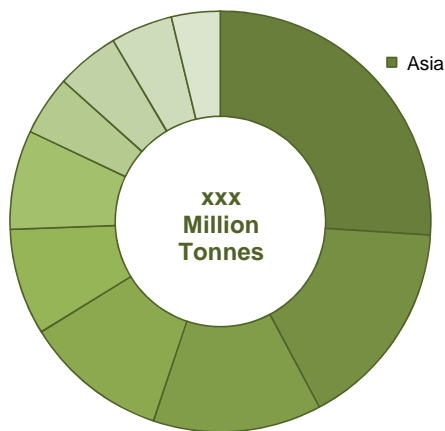
'000 Tonnes		USA	Canada	Brazil	Other Latin America	China	Japan	Other Asia	Africa	Oceania	Others	Outside Europe	Total Exports
Austria													
Belgium													
Czech Republic													
Finland													
France													
Germany													
Hungary													
Italy													
Netherlands													
Norway													
Poland													
Portugal													
Romania													
Slovakia													
Slovenia													
Spain													
Sweden													
United Kingdom													
<b>Total CEPI</b>													

CEPI Exports of Paper and Board to Others Regions

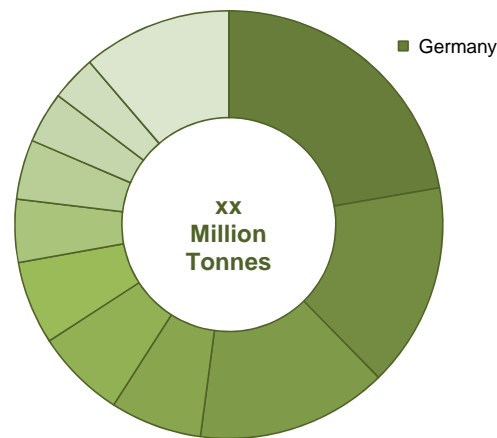
Million Tonnes



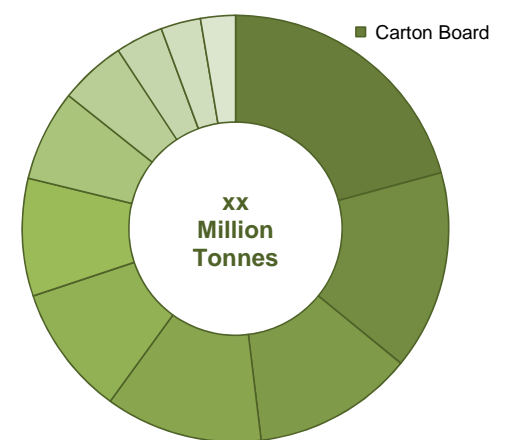
CEPI Exports by Destination in 2016



Top 10 CEPI Exporters\* in 2016



CEPI Exports by Grade in 2016



\* Include exports to other CEPI countries

## CEPI Exports of Paper and Board by Grade in 2016

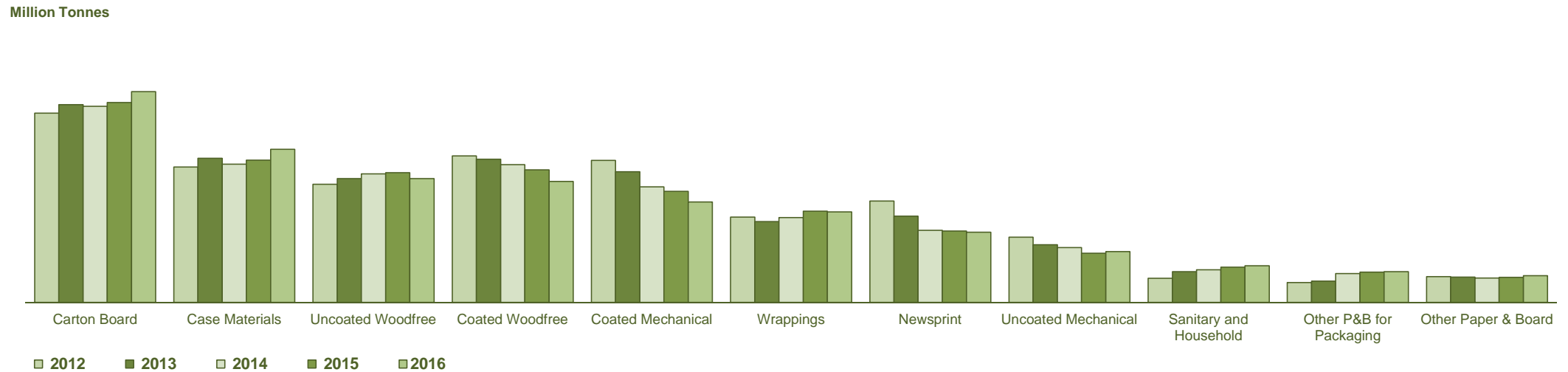
'000 Tonnes	BG	HR	CY	DK	EE	GR	IE	LV	LT	LU	MT	Non-CEPI EU Countries	RU	TR	CH	Other Europe	Total Non-CEPI Europe
Newsprint																	
Uncoated Mechanical																	
Coated Mechanical																	
Uncoated Woodfree																	
Coated Woodfree																	
Other Graphic Papers																	
<b>Total Graphic Papers</b>																	
<b>Sanitary and Household</b>																	
Case Materials																	
Carton Board																	
Wrappings																	
Other P&B for Packaging																	
<b>Total Packaging Papers</b>																	
<b>Other Paper &amp; Board</b>																	
<b>Total Paper and Board</b>																	



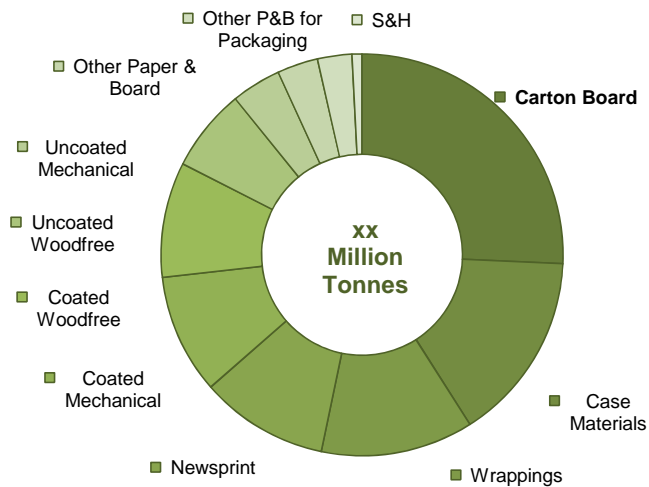
## CEPI Exports of Paper and Board by Grade in 2016

'000 Tonnes	USA	Canada	Brazil	Other Latin America	China	Japan	Other Asia	Africa	Oceania	Others	Outside Europe	Total Exports
Newsprint												
Uncoated Mechanical												
Coated Mechanical												
Uncoated Woodfree												
Coated Woodfree												
Other Graphic Papers												
<b>Total Graphic Papers</b>												
<b>Sanitary and Household</b>												
Case Materials												
Carton Board												
Wrappings												
Other P&B for Packaging												
<b>Total Packaging Papers</b>												
<b>Other Paper &amp; Board</b>												
<b>Total Paper and Board</b>												

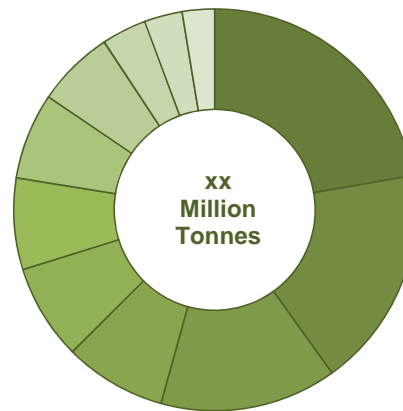
CEPI Exports of Paper and Board by Grade



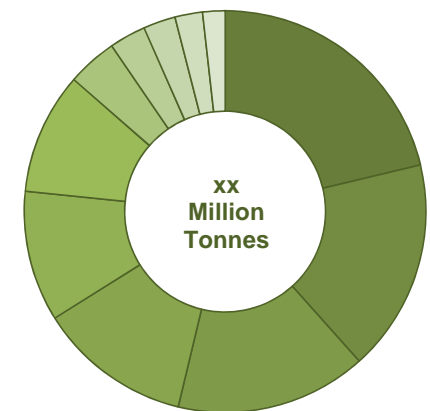
CEPI Exports to Asia in 2016



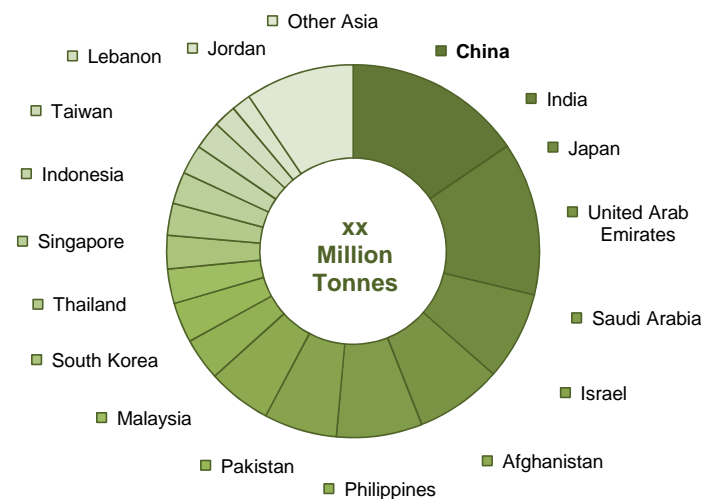
CEPI Exports to Non-CEPI Europe in 2016



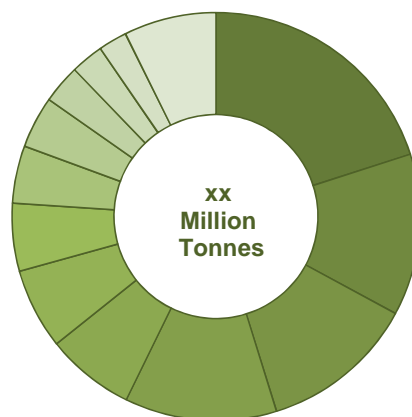
CEPI Exports to North America in 2016



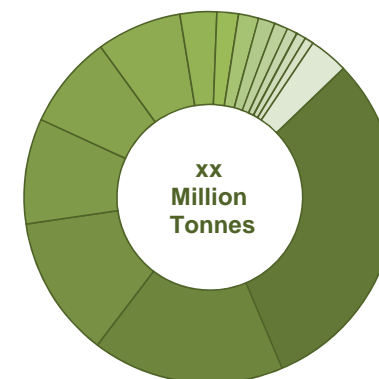
CEPI Exports to Asia in 2016



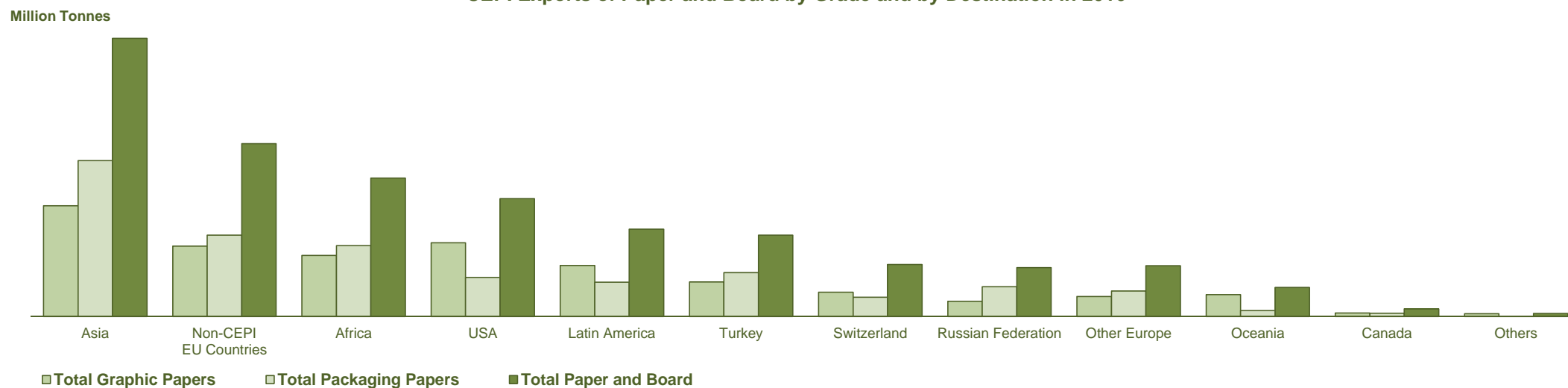
CEPI Exports to Non-CEPI Europe in 2016



CEPI Exports to Latin America in 2016



CEPI Exports of Paper and Board by Grade and by Destination in 2016



## CEPI Exports of Paper &amp; Board by Region

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Change vs. 2015	% Share of Total
<b>Other Europe</b>															
EU Non-CEPI Countries															
Russian Federation															
Switzerland															
Turkey															
Others															
<b>North America</b>															
United States															
Canada															
<b>Latin America</b>															
Brazil															
Other Latin America															
<b>Asia</b>															
China															
Japan															
Other Asia															
<b>Others</b>															
Africa															
Oceania															
Others															
<b>Total Outside CEPI</b>															

## CEPI Exports of Paper &amp; Board by Grade


'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Change vs. 2015	% Share of Total
Newsprint															
Uncoated Mechanical															
Coated Mechanical															
Uncoated Woodfree															
Coated Woodfree															
Other Graphic Papers															
<b>Total Graphic Papers</b>															
<b>Sanitary and Household</b>															
Case Materials															
Carton Board															
Wrappings															
Other Paper & Board for Packaging															
<b>Total Packaging Papers</b>															
<b>Other Paper &amp; Board</b>															
<b>Total Paper &amp; Board</b>															

CEPI Exports<sup>1</sup> of Paper and Board by Country

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Change vs. 2015	% Share of Total
Austria															
Belgium															
Czech Republic															
Finland															
France															
Germany															
Hungary															
Italy															
Netherlands															
Norway															
Poland															
Portugal															
Romania															
Slovakia															
Slovenia															
Spain															
Sweden															
United Kingdom															
<b>Total CEPI</b>															

<sup>1</sup> Include exports to other CEPI countries

## Graphic Papers - CEPI Internal Deliveries in 2016

'000 Tonnes		AT	BE	CZ	FI	FR	DE	HU	IT	NL	NO	PL	PT	RO	SK	SI	ES	SE	UK	Total CEPI
Austria																				
Belgium																				
Czech Republic																				
Finland																				
France																				
Germany																				
Italy																				
Netherlands																				
Poland																				
Portugal																				
Romania																				
Spain																				
Sweden																				
United Kingdom																				
Other CEPI Countries																				
<b>Total CEPI</b>																				



List of countries could be modified  
following transparency issues

## Graphic Papers - CEPI Exports in 2016

'000 Tonnes		Bulgaria	Croatia	Cyprus	Denmark	Estonia	Greece	Ireland	Latvia	Lithuania	Lux	Malta	Non-CEPI EU Countries	Russian Federation	Turkey	Switzerland	Other Europe	Total Non-CEPI Europe
Austria																		
Belgium																		
Czech Republic																		
Finland																		
France																		
Germany																		
Italy																		
Netherlands																		
Poland																		
Portugal																		
Romania																		
Spain																		
Sweden																		
United Kingdom																		
Other CEPI Countries																		
<b>Total CEPI</b>																		



List of countries could be modified  
following transparency issues




## Graphic Papers - CEPI Exports in 2016

'000 Tonnes		USA	Canada	Brazil	Other Latin America	China	Japan	Other Asia	Africa	Oceania	Others	Outside Europe	Total Exports
Austria													
Belgium													
Czech Republic													
Finland													
France													
Germany													
Italy													
Netherlands													
Poland													
Portugal													
Romania													
Spain													
Sweden													
United Kingdom													
Other CEPI Countries													
<b>Total CEPI</b>													



List of countries could be modified following transparency issues


## Packaging papers - CEPI Internal Deliveries in 2016

'000 Tonnes		AT	BE	CZ	FI	FR	DE	HU	IT	NL	NO	PL	PT	RO	SK	SI	ES	SE	UK	Total CEPI
Austria																				
Czech Republic																				
Finland																				
France																				
Germany																				
Italy																				
Netherlands																				
Poland																				
Portugal																				
Romania																				
Spain																				
Sweden																				
United Kingdom																				
Other CEPI Countries																				
<b>Total CEPI</b>																				



List of countries could be modified  
following transparency issues


## Packaging papers - CEPI Exports in 2016

'000 Tonnes		Bulgaria	Croatia	Cyprus	Denmark	Estonia	Greece	Ireland	Latvia	Lithuania	Lux	Malta	Non-CEPI EU Countries	Russian Federation	Turkey	Switzerland	Other Europe	Total Non-CEPI Europe
Austria																		
Czech Republic																		
Finland																		
France																		
Germany																		
Italy																		
Netherlands																		
Poland																		
Portugal																		
Romania																		
Spain																		
Sweden																		
United Kingdom																		
Other CEPI Countries																		
<b>Total CEPI</b>																		



List of countries could be modified  
following transparency issues


## Packaging papers - CEPI Exports in 2016

'000 Tonnes		USA	Canada	Brazil	Other Latin America	China	Japan	Other Asia	Africa	Oceania	Others	Outside Europe	Total Exports
Austria													
Czech Republic													
Finland													
France													
Germany													
Italy													
Netherlands													
Poland													
Portugal													
Romania													
Spain													
Sweden													
United Kingdom													
Other CEPI Countries													
<b>Total CEPI</b>													



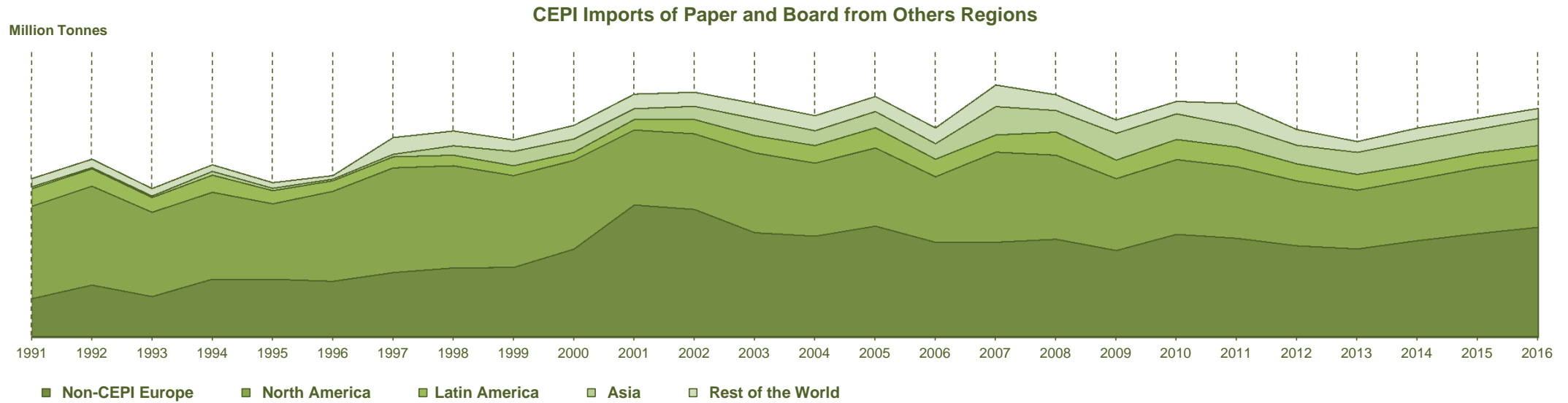
List of countries could be modified  
following transparency issues

## CEPI Imports of Paper and Board by Country in 2016

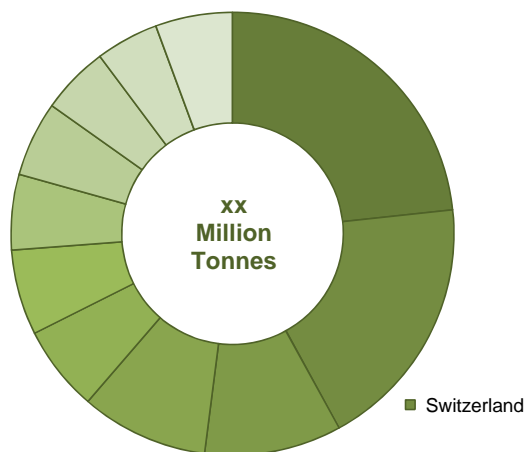
'000 Tonnes		Bulgaria	Croatia	Cyprus	Denmark	Estonia	Greece	Ireland	Latvia	Lithuania	Lux	Malta	Non-CEPI EU Countries	Russian Federation	Turkey	Switzerland	Other Europe	Total Non-CEPI Europe
Austria																		
Belgium																		
Czech Republic																		
Finland																		
France																		
Germany																		
Hungary																		
Italy																		
Netherlands																		
Norway																		
Poland																		
Portugal																		
Romania																		
Slovakia																		
Slovenia																		
Spain																		
Sweden																		
United Kingdom																		
<b>Total CEPI</b>																		

### CEPI Imports of Paper and Board by Country in 2016

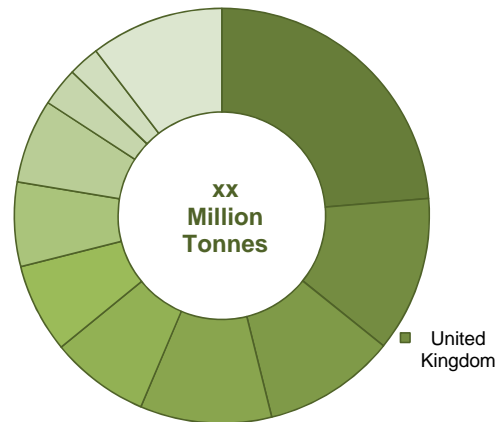
[illegible]



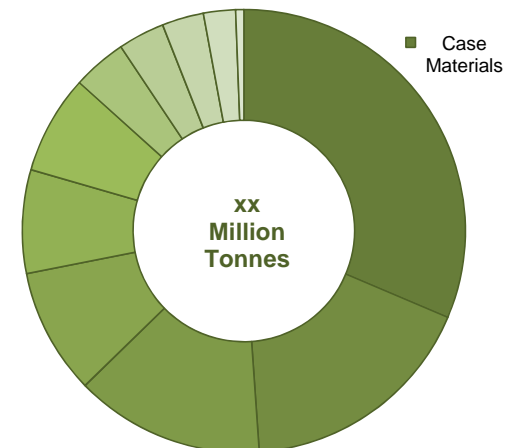
CEPI Imports by Origin in 2016



Top 10 CEPI Importers\* in 2016



CEPI Imports by Grade in 2016



\* Include imports from other CEPI countries

## CEPI Imports of Paper and Board by Grade in 2016

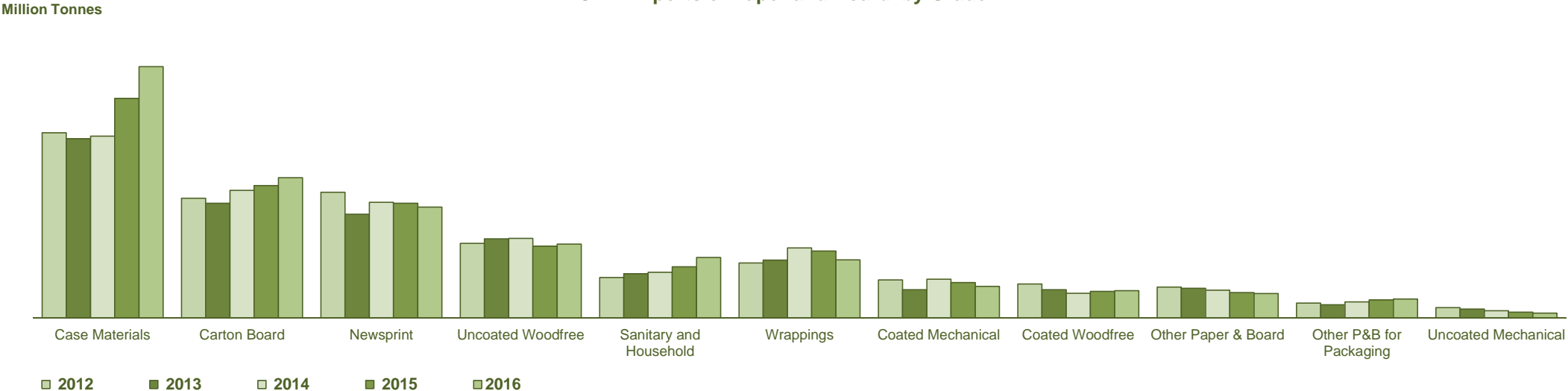
'000 Tonnes	BG	HR	CY	DK	EE	GR	IE	LV	LT	LU	MT	Non-CEPI EU Countries	RU	TR	CH	Other Europe	Total Non-CEPI Europe
Newsprint																	
Uncoated Mechanical																	
Coated Mechanical																	
Uncoated Woodfree																	
Coated Woodfree																	
Other Graphic Papers																	
<b>Total Graphic Papers</b>																	
<b>Sanitary and Household</b>																	
Case Materials																	
Carton Board																	
Wrappings																	
Other P&B for Packaging																	
<b>Total Packaging Papers</b>																	
<b>Other Paper &amp; Board</b>																	
<b>Total Paper and Board</b>																	



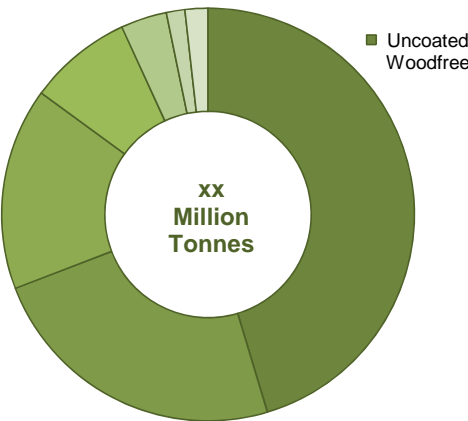
## CEPI Imports of Paper and Board by Grade in 2016

'000 Tonnes	USA	Canada	Brazil	Other Latin America	China	Japan	Other Asia	Africa	Oceania	Others	Outside Europe	Total Imports
Newsprint												
Uncoated Mechanical												
Coated Mechanical												
Uncoated Woodfree												
Coated Woodfree												
Other Graphic Papers												
<b>Total Graphic Papers</b>												
<b>Sanitary and Household</b>												
Case Materials												
Carton Board												
Wrappings												
Other P&B for Packaging												
<b>Total Packaging Papers</b>												
<b>Other Paper &amp; Board</b>												
<b>Total Paper and Board</b>												

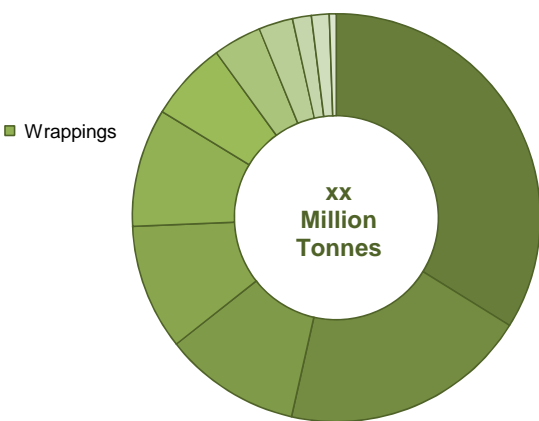
**CEPI Imports of Paper and Board by Grade**



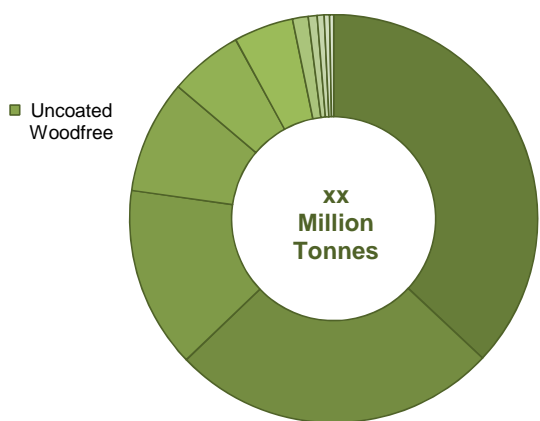
**CEPI Imports from Latin America in 2016**



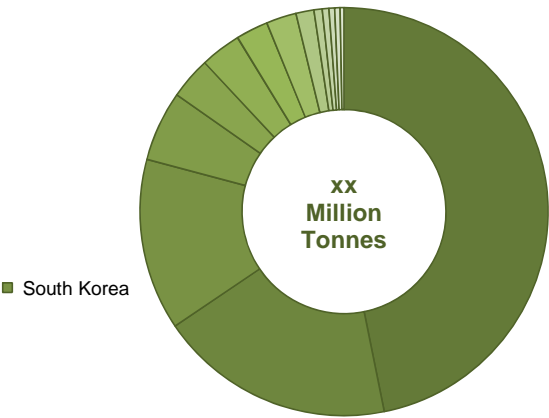
**CEPI Imports from Non-CEPI Europe in 2016**



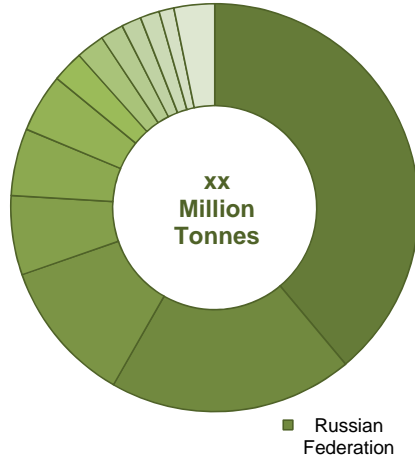
**CEPI Imports from North America in 2016**



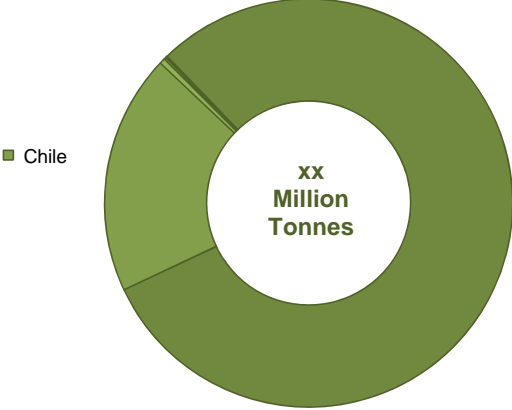
CEPI Imports from Asia in 2016



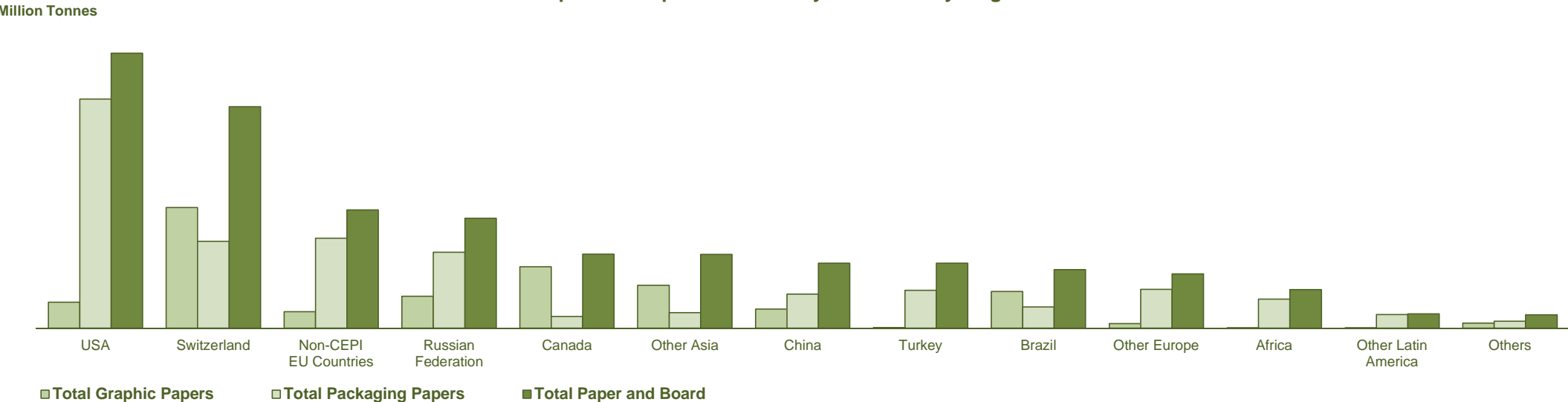
CEPI Imports from Non-CEPI Europe in 2016



CEPI Imports from Latin America in 2016



CEPI Imports of Paper and Board by Grade and by Origin in 2016



## CEPI Imports of Paper &amp; Board by Region

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Change vs. 2015	% Share of Total
<b>Other Europe</b>															
EU Non-CEPI Countries															
Russian Federation															
Switzerland															
Turkey															
Others															
<b>North America</b>															
United States															
Canada															
<b>Latin America</b>															
Brazil															
Other Latin America															
<b>Asia</b>															
China															
Japan															
Other Asia															
<b>Others</b>															
Africa															
Oceania															
Others															
<b>Total Outside CEPI</b>															

## CEPI Imports of Paper &amp; Board by Grade

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Change vs. 2015	% Share of Total
Newsprint															
Uncoated Mechanical															
Coated Mechanical															
Uncoated Woodfree															
Coated Woodfree															
Other Graphic Papers															
<b>Total Graphic Papers</b>															
<b>Sanitary and Household</b>															
Case Materials															
Carton Board															
Wrappings															
Other Paper & Board for Packaging															
<b>Total Packaging Papers</b>															
<b>Other Paper &amp; Board</b>															
<b>Total Paper &amp; Board</b>															

CEPI Imports<sup>1</sup> of Paper and Board by Country

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Change vs. 2015	% Share of Total
Austria															
Belgium															
Czech Republic															
Finland															
France															
Germany															
Hungary															
Italy															
Netherlands															
Norway															
Poland															
Portugal															
Romania															
Slovakia															
Slovenia															
Spain															
Sweden															
United Kingdom															
<b>Total CEPI</b>															

<sup>1</sup> Include Imports from other CEPI countries

## Graphic Papers - CEPI Imports in 2016

'000 Tonnes		Bulgaria	Croatia	Cyprus	Denmark	Estonia	Greece	Ireland	Latvia	Lithuania	Lux	Malta	Non-CEPI EU Countries	Russian Federation	Turkey	Switzerland	Other Europe	Total Non-CEPI Europe
Austria																		
Belgium																		
Czech Republic																		
Finland																		
France																		
Germany																		
Italy																		
Netherlands																		
Poland																		
Portugal																		
Romania																		
Spain																		
Sweden																		
United Kingdom																		
Other CEPI Countries																		
<b>Total CEPI</b>																		



List of countries could be modified  
following transparency issues

## Graphic Papers - CEPI Imports in 2016


'000 Tonnes		USA	Canada	Brazil	Other Latin America	China	Japan	Other Asia	Africa	Oceania	Others	Outside Europe	Total Imports
Austria													
Belgium													
Czech Republic													
Finland													
France													
Germany													
Italy													
Netherlands													
Poland													
Portugal													
Romania													
Spain													
Sweden													
United Kingdom													
Other CEPI Countries													
<b>Total CEPI</b>													



List of countries could be modified following transparency issues



## Packaging papers - CEPI Imports in 2016

'000 Tonnes		Bulgaria	Croatia	Cyprus	Denmark	Estonia	Greece	Ireland	Latvia	Lithuania	Lux	Malta	Non-CEPI EU Countries	Russian Federation	Turkey	Switzerland	Other Europe	Total Non-CEPI Europe
Austria																		
Czech Republic																		
Finland																		
France																		
Germany																		
Italy																		
Netherlands																		
Poland																		
Portugal																		
Romania																		
Spain																		
Sweden																		
United Kingdom																		
Other CEPI Countries																		
<b>Total CEPI</b>																		



List of countries could be modified  
following transparency issues

## Packaging papers - CEPI Imports in 2016

'000 Tonnes		USA	Canada	Brazil	Other Latin America	China	Japan	Other Asia	Africa	Oceania	Others	Outside Europe	Total Imports
Austria													
Czech Republic													
Finland													
France													
Germany													
Italy													
Netherlands													
Poland													
Portugal													
Romania													
Spain													
Sweden													
United Kingdom													
Other CEPI Countries													
<b>Total CEPI</b>													



List of countries could be modified  
following transparency issues

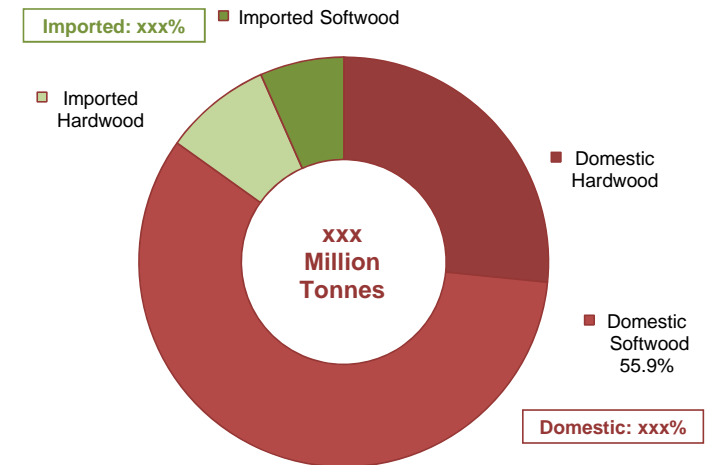
## Wood

CEPI Wood Imports by Region in 2016

'000 Tonnes	Roundwood		Chips		Total Wood
	Softwood	Hardwood	Softwood	Hardwood	
Other Europe					
Latin America					
North America					
Asia					
Rest of the World					
<b>Total Imports</b>					

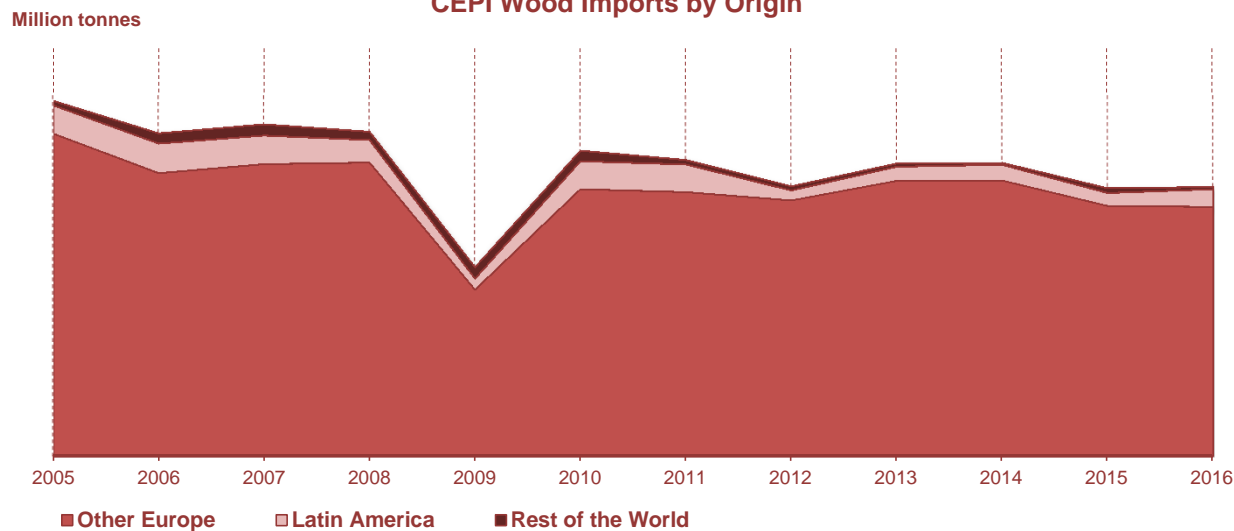
Source: Eurostat

Share in CEPI Wood Consumption in 2016



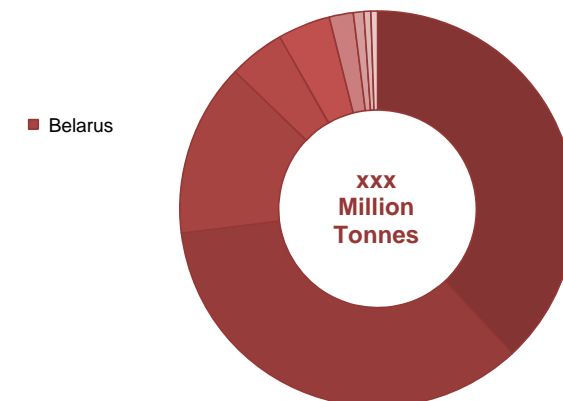
Source: CEPI - Eurostat

CEPI Wood Imports by Origin




Source: Eurostat

CEPI Wood Imports by Origin in 2016



Source: Eurostat

## CEPI Internal Deliveries of Pulp by Country in 2016

'000 Tonnes		AT	BE	CZ	FI	FR	DE	HU	IT	NL	NO	PL	PT	RO	SK	SI	ES	SE	UK	Total CEPI
Austria																				
Finland																				
France																				
Germany																				
Italy																				
Norway																				
Poland																				
Portugal																				
Romania																				
Spain																				
Sweden																				
Other CEPI Countries																				
<b>Total CEPI</b>																				



List of countries could be modified  
following transparency issues

## CEPI Exports of Market Pulp by Country in 2016

'000 Tonnes		Bulgaria	Croatia	Cyprus	Denmark	Estonia	Greece	Ireland	Latvia	Lithuania	Lux	Malta	Non-CEPI EU Countries	Russian Federation	Turkey	Switzerland	Other Europe	Total Non-CEPI Europe
Austria																		
Finland																		
France																		
Germany																		
Italy																		
Norway																		
Poland																		
Portugal																		
Romania																		
Spain																		
Sweden																		
Other CEPI Countries																		
<b>Total CEPI</b>																		



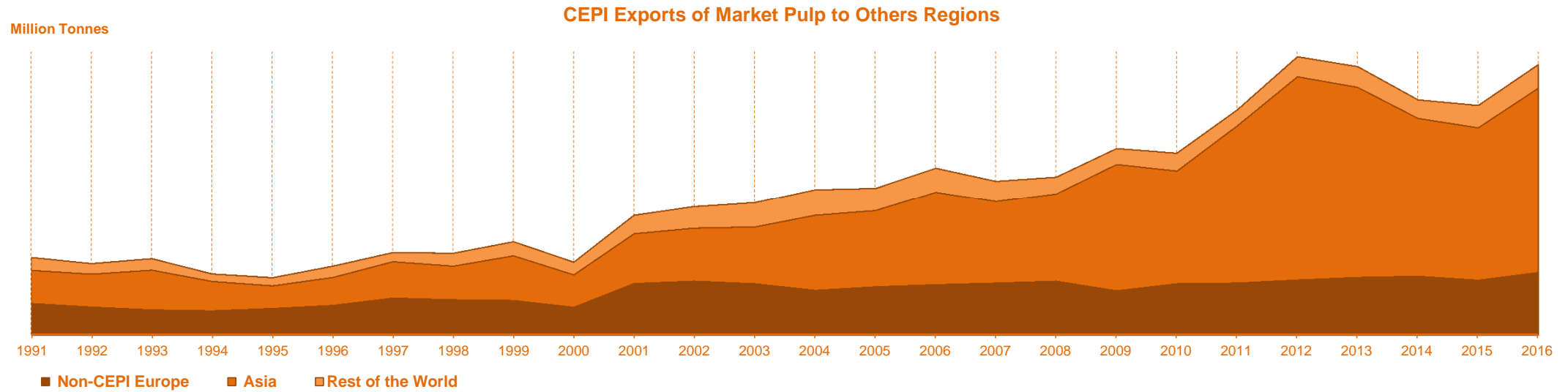
List of countries could be modified  
following transparency issues

## CEPI Exports of Market Pulp by Country in 2016

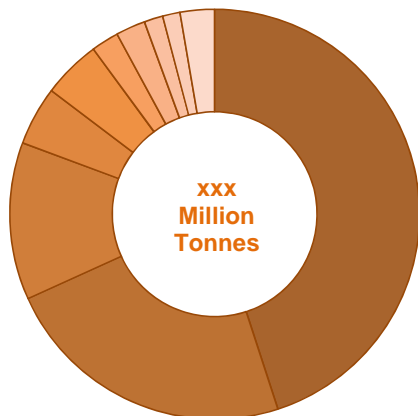
'000 Tonnes		USA	Canada	Brazil	Other Latin America	China	Japan	Other Asia	Africa	Oceania	Others	Outside Europe	Total Exports
Austria													
Finland													
France													
Germany													
Italy													
Norway													
Poland													
Portugal													
Romania													
Spain													
Sweden													
Other CEPI Countries													
<b>Total CEPI</b>													



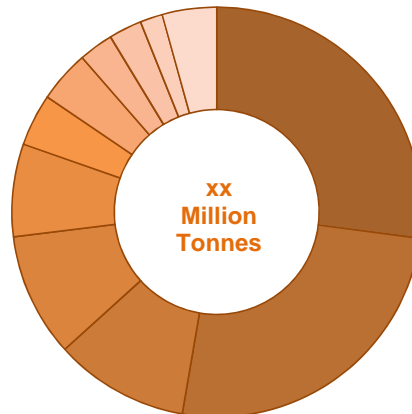
List of countries could be modified  
following transparency issues



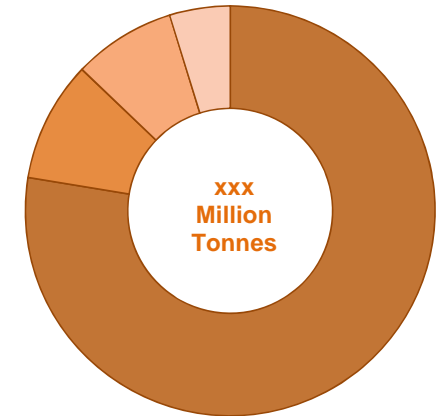
CEPI Exports of Market Pulp by Destination in 2016



Top 10 CEPI Pulp Exporters\* in 2016



CEPI Exports of Market Pulp by Grade in 2016

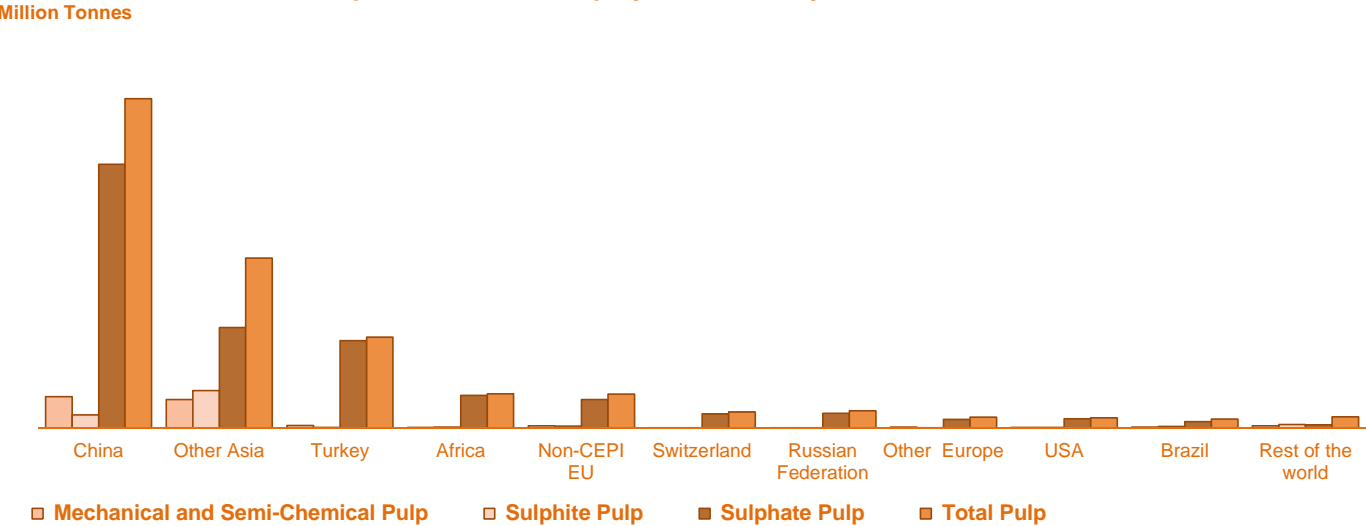


\* Include exports to other CEPI countries

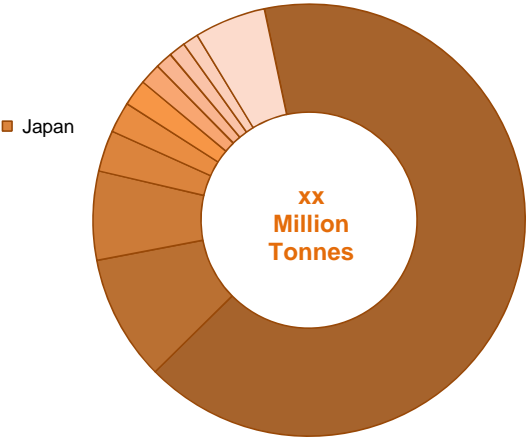
CEPI Exports of Market Pulp by Grade in 2016

'000 Tonnes	Non-CEPI EU Countries	Russian Federation	Turkey	Switzerland	Other Europe	USA	Canada	Brazil	Other Latin America	China	Japan	Other Asia	Africa	Oceania	Others	Total Exports
Mechanical and Semi- Chemical Pulp																
Sulphite Pulp																
Sulphate Pulp																
Chemical Pulp																
Woodpulp for Papermaking																
Other Pulp																
Total Pulp																

CEPI Exports of Market Pulp by Grade and by Destination in 2016

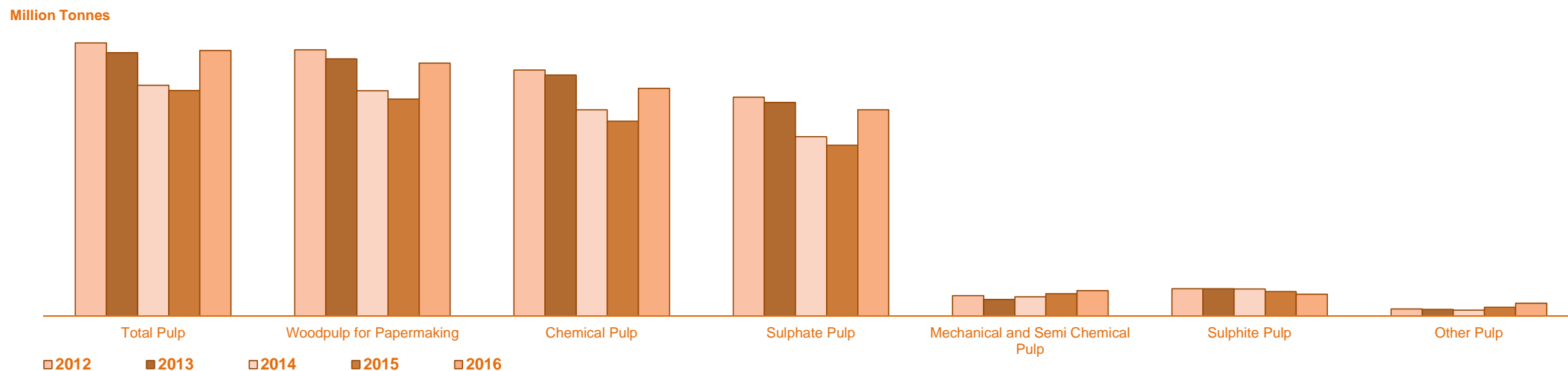


CEPI Exports of Market Pulp to Asia in 2016

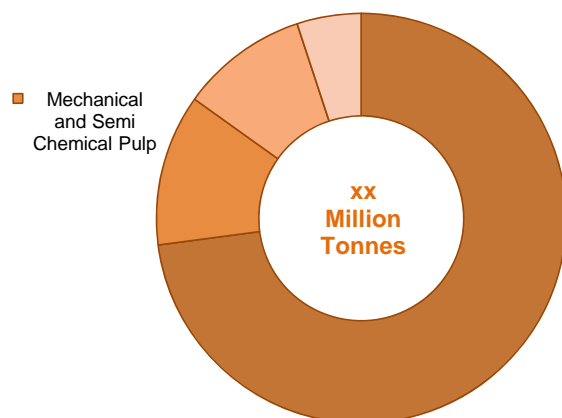




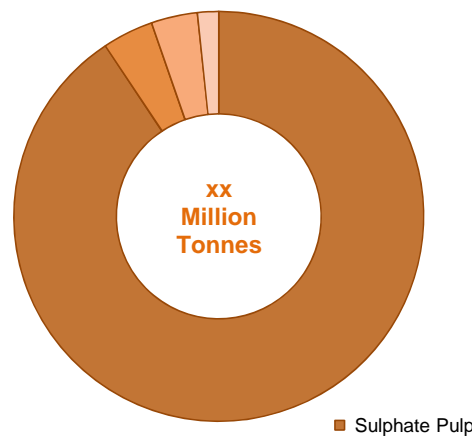
CEPI Exports of Market Pulp by Grade



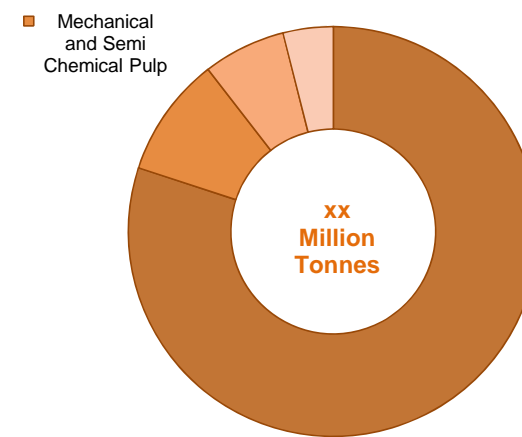
CEPI Exports of Market Pulp to Asia in 2016



CEPI Exports of Market Pulp to Non-CEPI Europe



CEPI Exports of Market Pulp to China in 2016



## CEPI Market Pulp Exports by Region

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
<b>Other Europe</b>															
EU Non-CEPI Countries															
Russian Federation															
Switzerland															
Turkey															
Others															
<b>North America</b>															
United States															
Canada															
<b>Latin America</b>															
Brazil															
Other Latin America															
<b>Asia</b>															
China															
Japan															
Other Asia															
<b>Others</b>															
Africa															
Oceania															
Others															
<b>Total Exports</b>															

## CEPI Market Pulp Exports by Grade

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
Mechanical & Semi-Chemical Pulp															
Sulphite Pulp															
Sulphate Pulp															
Chemical Pulp															
Other Pulp															
<b>Total Pulp</b>															

CEPI Market Pulp Exports<sup>1</sup> by Country

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
Austria															
Finland															
France															
Germany															
Italy															
Norway															
Poland															
Portugal															
Romania															
Spain															
Sweden															
Other CEPI Countries															
<b>Total CEPI</b>															



List of countries could be modified  
following transparency issues

<sup>1</sup> Include exports to other CEPI countries

## CEPI Imports of Market Pulp by Country in 2016

'000 Tonnes		Bulgaria	Croatia	Cyprus	Denmark	Estonia	Greece	Ireland	Latvia	Lithuania	Lux	Malta	Non-CEPI EU Countries	Russian Federation	Turkey	Switzerland	Other Europe	Total Non-CEPI Europe
Austria																		
Finland																		
France																		
Germany																		
Italy																		
Norway																		
Poland																		
Portugal																		
Romania																		
Spain																		
Sweden																		
Other CEPI Countries																		
<b>Total CEPI</b>																		



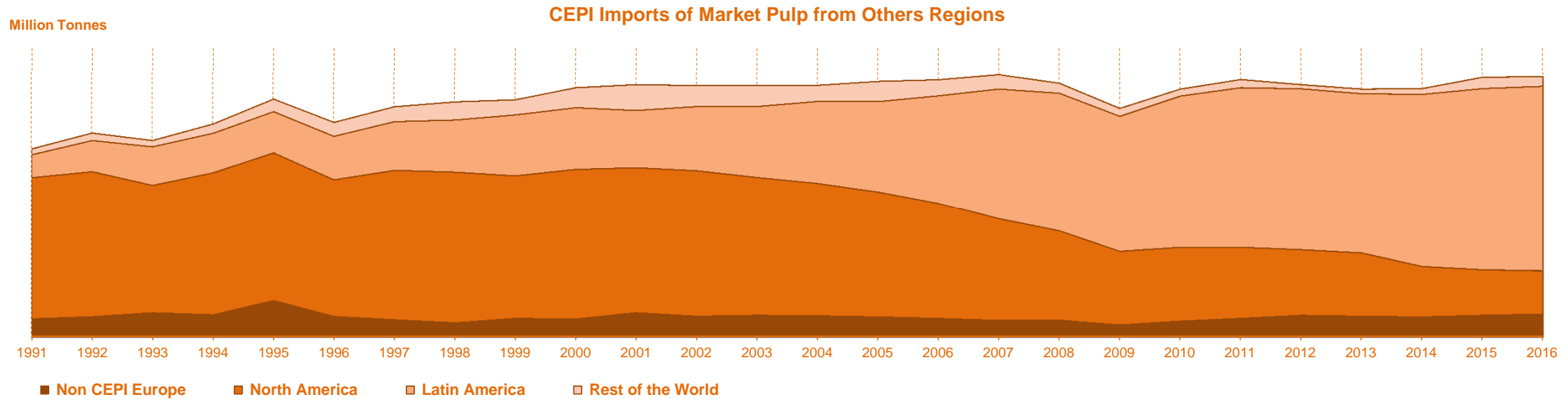
List of countries could be modified  
following transparency issues

## CEPI Imports of Market Pulp by Country in 2016

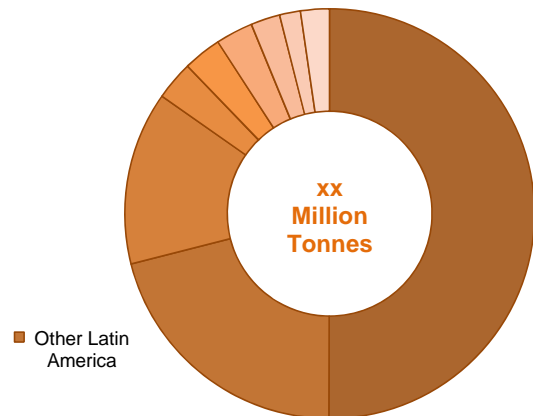
'000 Tonnes		USA	Canada	Brazil	Other Latin America	China	Japan	Other Asia	Africa	Oceania	Others	Outside Europe	Total Imports
Austria													
Finland													
France													
Germany													
Italy													
Norway													
Poland													
Portugal													
Romania													
Spain													
Sweden													
Other CEPI Countries													
<b>Total CEPI</b>													



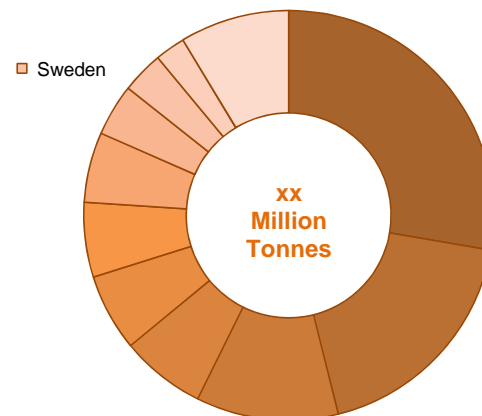
List of countries could be modified  
following transparency issues



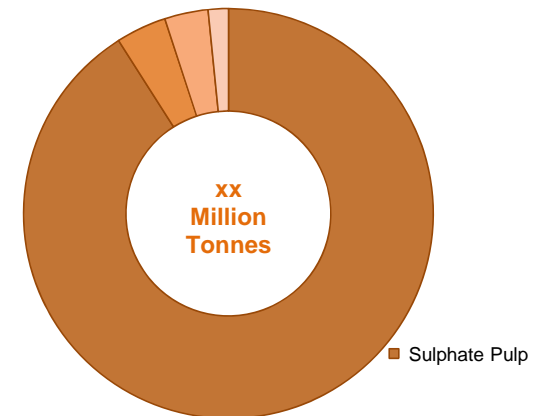
CEPI Imports of Market Pulp by Origin in 2016



Top 10 CEPI Pulp Importers\* in 2016



CEPI Imports of Market Pulp by Grade in 2016



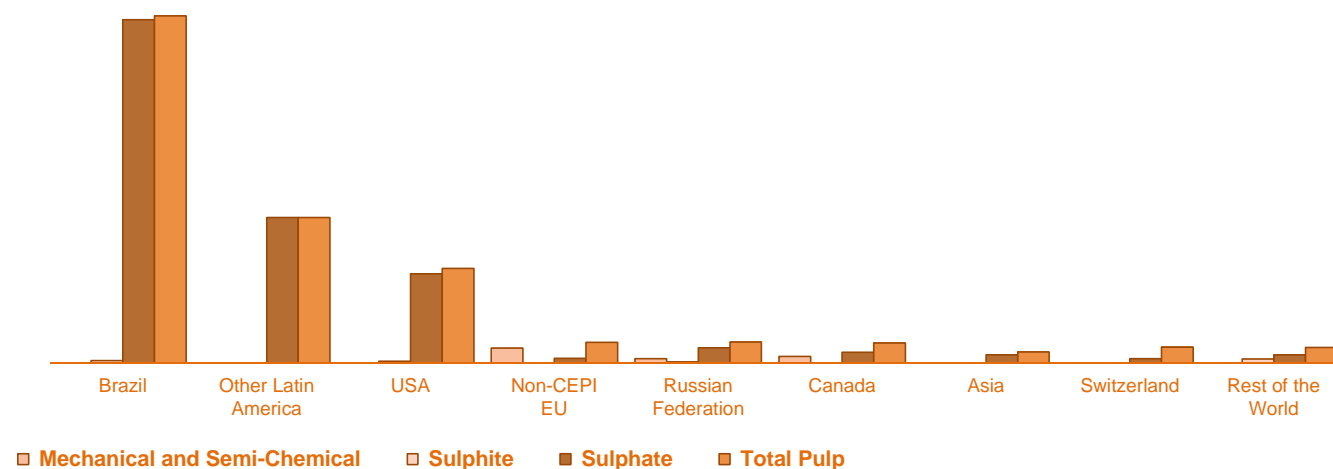
\* Include imports from other CEPI countries

CEPI Imports of Market Pulp by Grade in 2016

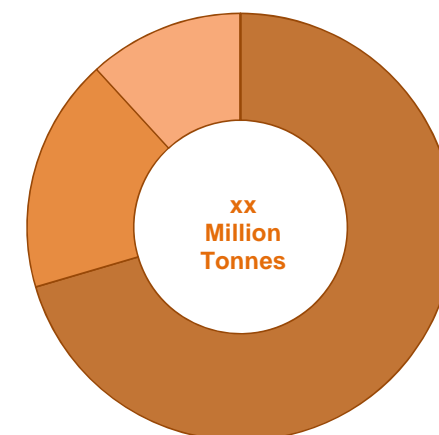
'000 Tonnes	Non-CEPI EU Countries	Russian Federation	Turkey	Switzerland	Other Europe	USA	Canada	Brazil	Other Latin America	China	Japan	Other Asia	Africa	Oceania	Others	Total Imports
Mechanical and Semi-Chemical																
Sulphite																
Sulphate																
Chemical																
Woodpulp for Papermaking																
Other Pulp																
Total Pulp																

CEPI Imports of Market Pulp by Grade and by Origin in 2016

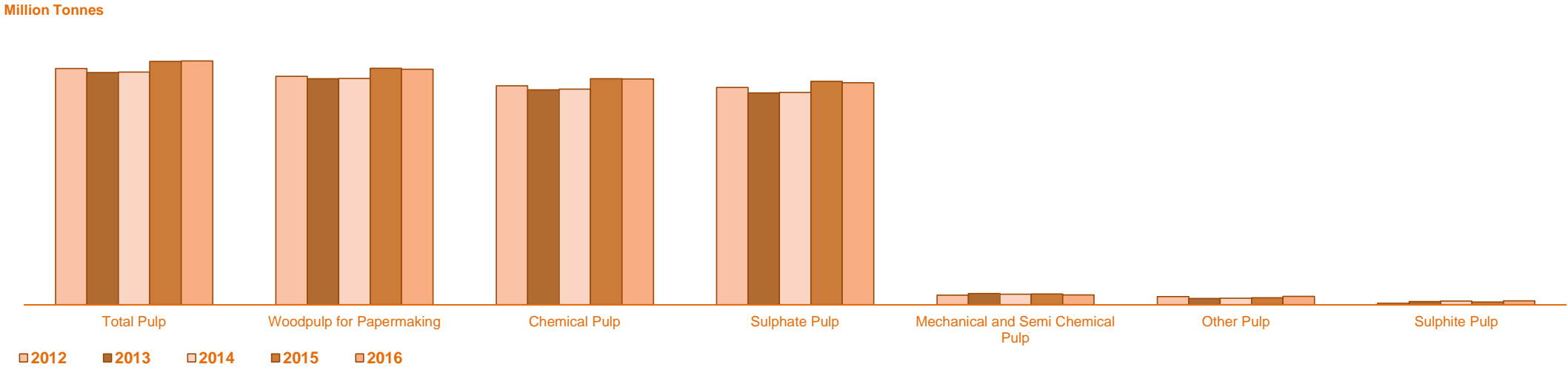
Million Tonnes



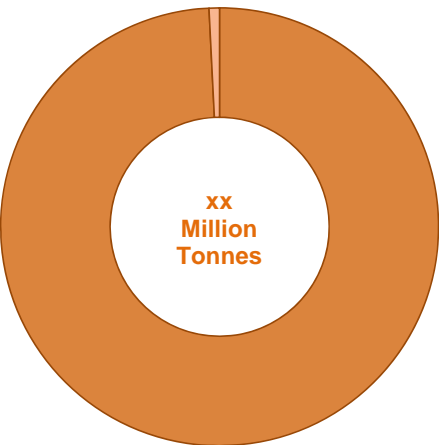
CEPI Imports of Market Pulp from Latin America



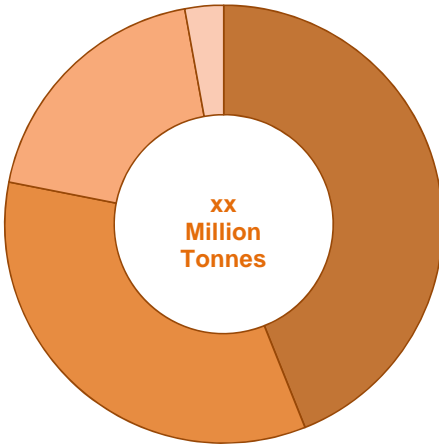
CEPI Imports of Market Pulp by Grade



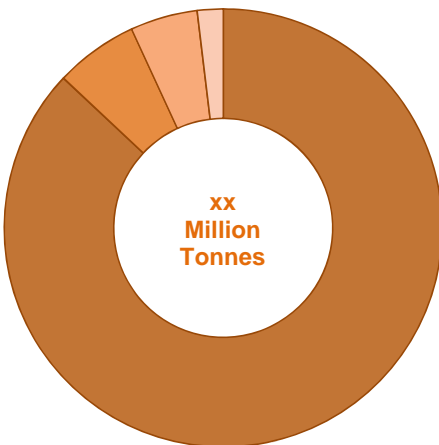
CEPI Imports of Market Pulp from Latin America



CEPI Imports of Market Pulp from Non-CEPI Europe



CEPI Imports of Market Pulp from North America





## CEPI Market Pulp Imports by Region

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
<b>Other Europe</b>															
EU Non-CEPI Countries															
Russian Federation															
Switzerland															
Turkey															
Others															
<b>North America</b>															
United States															
Canada															
<b>Latin America</b>															
Brazil															
Other Latin America															
<b>Asia</b>															
China															
Japan															
Other Asia															
<b>Others</b>															
Africa															
Oceania															
Others															
<b>Total Imports</b>															

## CEPI Market Pulp Imports by Grade

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
Mechanical & Semi-Chemical Pulp															
Sulphite Pulp															
Sulphate Pulp															
Chemical Pulp															
Other Pulp															
<b>Total Pulp</b>															

CEPI Market Pulp Imports<sup>1</sup> by Country

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
Austria															
Finland															
France															
Germany															
Italy															
Norway															
Poland															
Portugal															
Romania															
Spain															
Sweden															
Other CEPI Countries															
<b>Total CEPI</b>															




List of countries could be modified  
following transparency issues

<sup>1</sup> Include imports from other CEPI countries

## CEPI Internal Deliveries of Paper for Recycling by Country in 2016

'000 Tonnes		AT	BE	CZ	FI	FR	DE	HU	IT	NL	NO	PL	PT	RO	SK	SK	ES	SE	UK	Total CEPI
Austria																				
Belgium																				
Czech Republic																				
Finland																				
France																				
Germany																				
Hungary																				
Italy																				
Netherlands																				
Norway																				
Poland																				
Portugal																				
Romania																				
Slovakia																				
Slovenia																				
Spain																				
Sweden																				
United Kingdom																				
Total CEPI																				

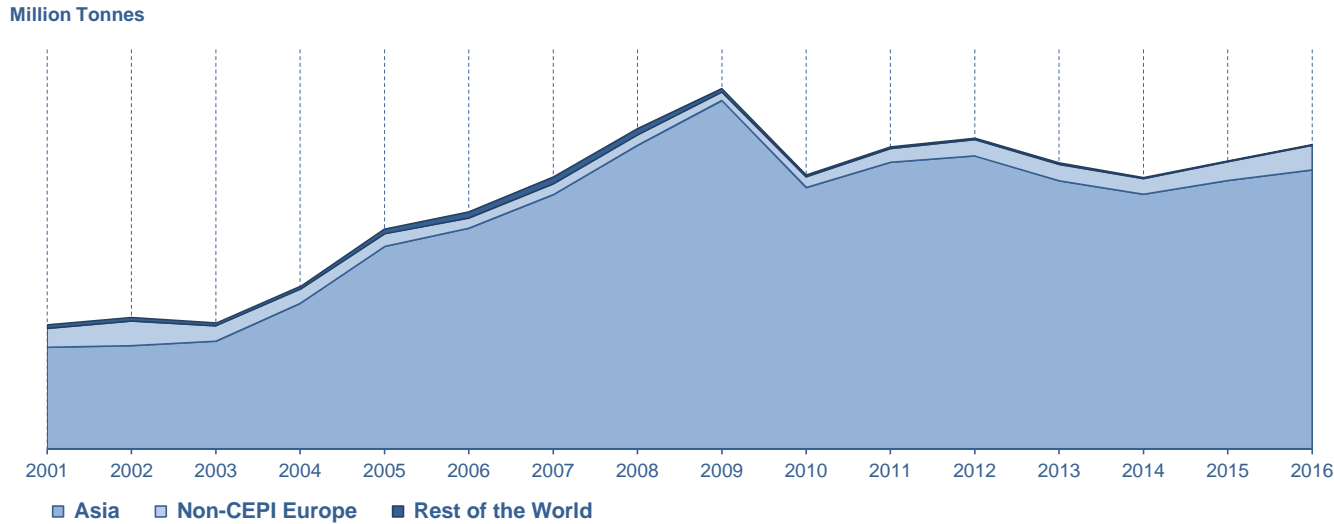
## CEPI Exports of Paper for Recycling by Country in 2016

'000 Tonnes		Bulgaria	Croatia	Cyprus	Denmark	Estonia	Greece	Ireland	Latvia	Lithuania	Lux	Malta	Non-CEPI EU Countries	Russian Federation	Turkey	Switzerland	Other Europe	Total Non-CEPI Europe
Austria																		
Belgium																		
Czech Republic																		
Finland																		
France																		
Germany																		
Hungary																		
Italy																		
Netherlands																		
Norway																		
Poland																		
Portugal																		
Romania																		
Slovakia																		
Slovenia																		
Spain																		
Sweden																		
United Kingdom																		
<b>Total CEPI</b>																		

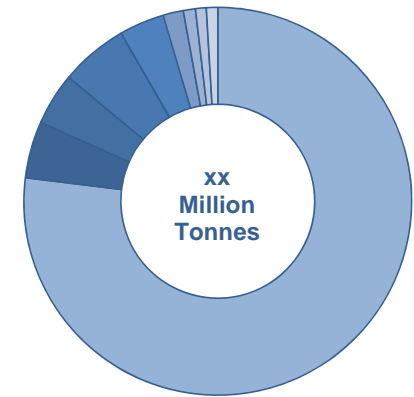
### CEPI Exports of Paper for Recycling by Country in 2016

[illegible]

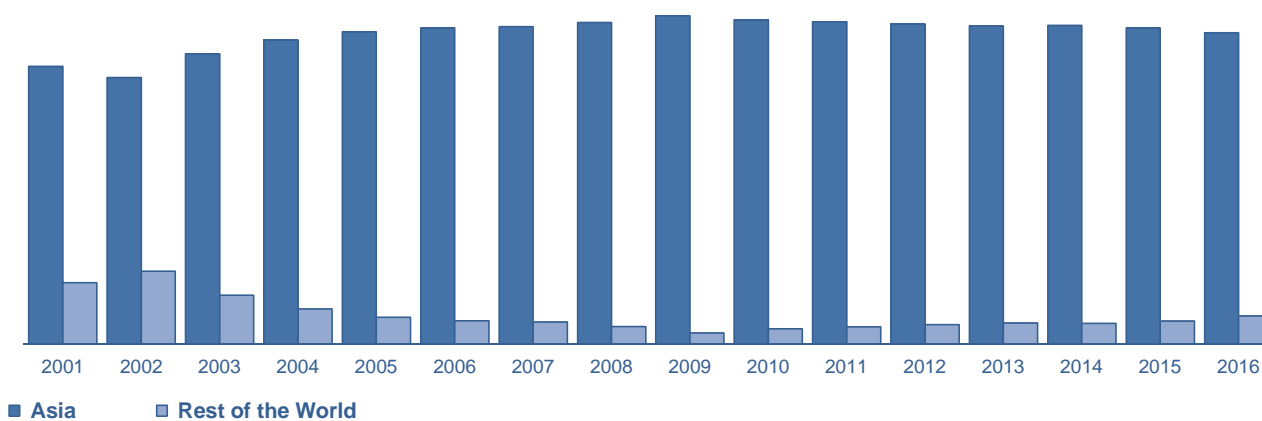
CEPI Exports of Paper for Recycling to Others Regions



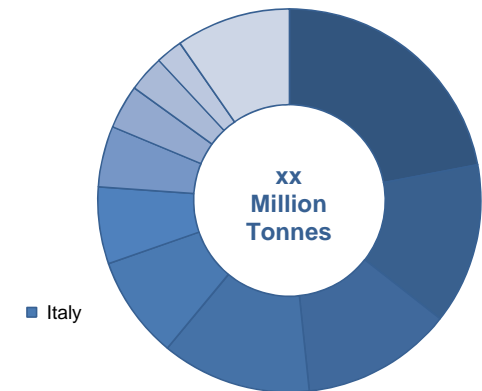
CEPI Exports by Destination in 2016



Share of CEPI Exports of Paper for Recycling to Asia



Top 10 CEPI Exporters\* in 2016



\* Include exports to other CEPI countries

## CEPI Exports of Paper for Recycling by Region

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
<b>Other Europe</b>															
EU Non-CEPI Countries															
Russian Federation															
Switzerland															
Turkey															
Others															
<b>North America</b>															
United States															
Canada															
<b>Latin America</b>															
Brazil															
Other Latin America															
<b>Asia</b>															
China															
Japan															
Other Asia															
<b>Others</b>															
Africa															
Oceania															
Others															
<b>Total Exports</b>															

CEPI Exports of Paper for Recycling by Country<sup>1</sup>

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
Austria															
Belgium															
Czech Republic															
Finland															
France															
Germany															
Hungary															
Italy															
Netherlands															
Norway															
Poland															
Portugal															
Romania															
Slovakia															
Slovenia															
Spain															
Sweden															
United Kingdom															
<b>Total CEPI</b>															

<sup>1</sup> Include exports to other CEPI countries

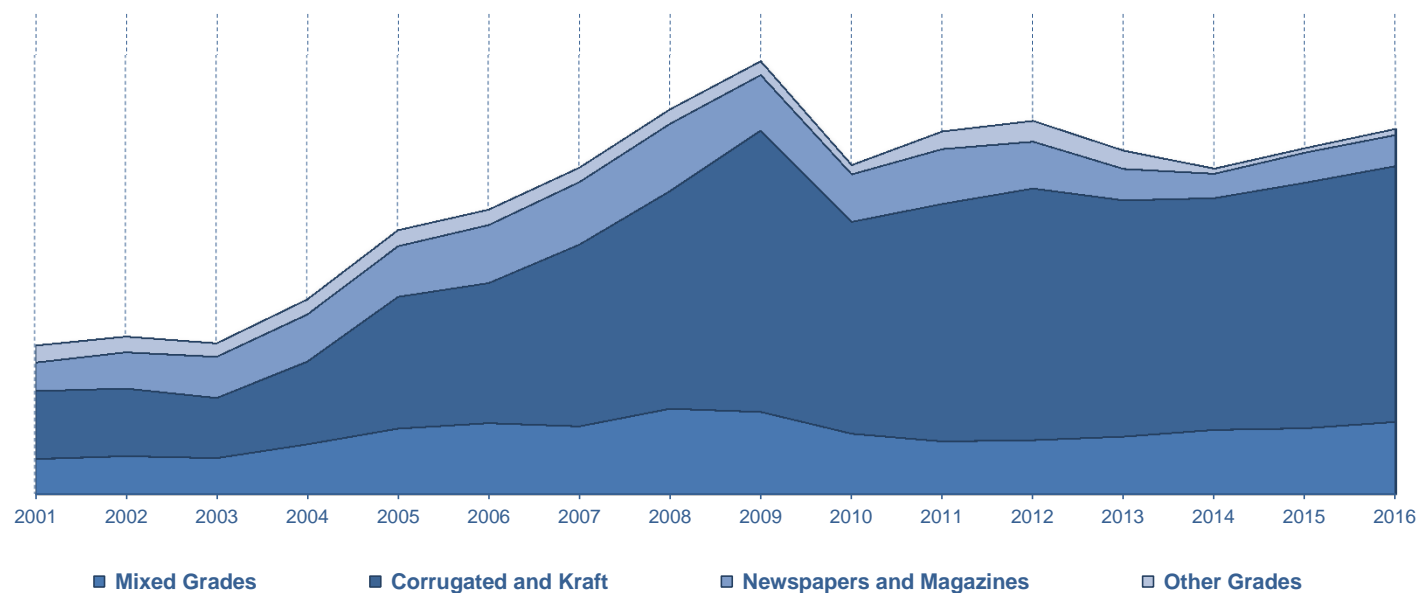


CEPI Exports of Paper for Recycling by Grade

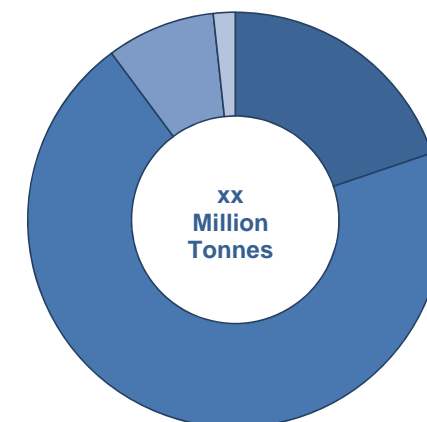
'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
Mixed Grades															
Corrugated and Kraft															
Newspapers and Magazines															
Other Grades															
<b>Total Paper for Recycling</b>															

CEPI Exports of Paper for Recycling by Grade

Million Tonnes



CEPI Exports by Grade in 2016



EU-28 Exports of Paper for Recycling by Destination

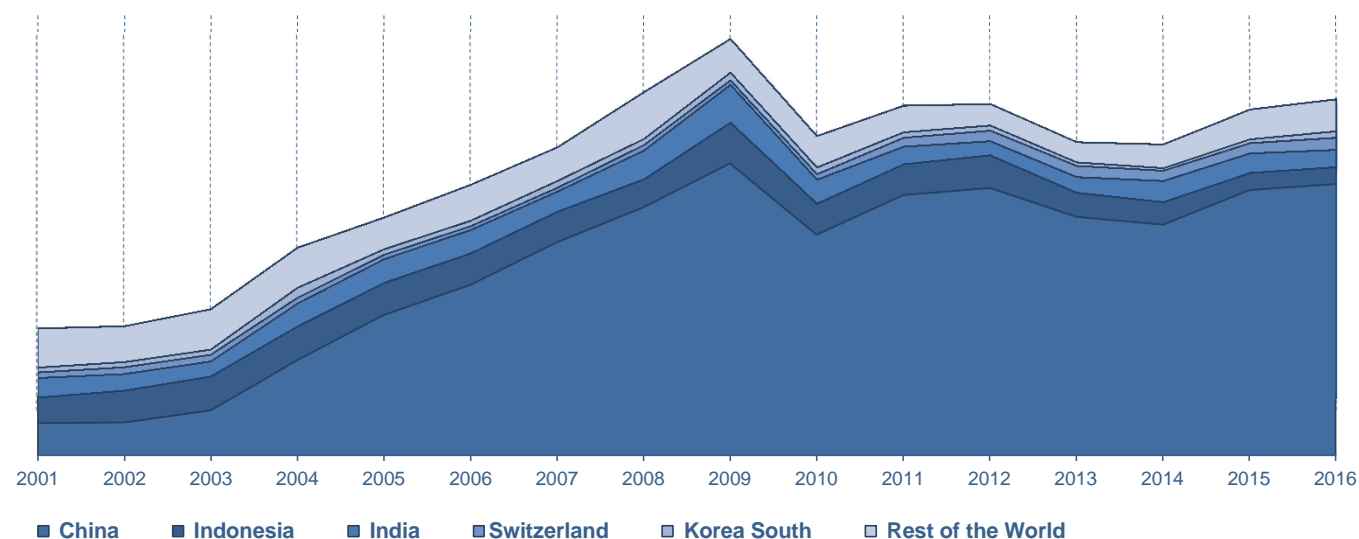
'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
China															
Indonesia															
India															
Switzerland															
Korea South															
Rest of the World															
World															

Commodity: 4707, Waste And Scrap Of Paper Or Paperboard

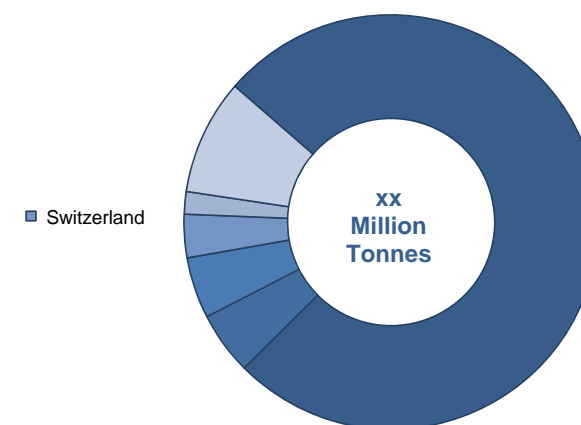
Source: GTIS

EU-28 Exports of Paper for Recycling by Destination


Million Tonnes




EU-28 Exports by Destination in 2016

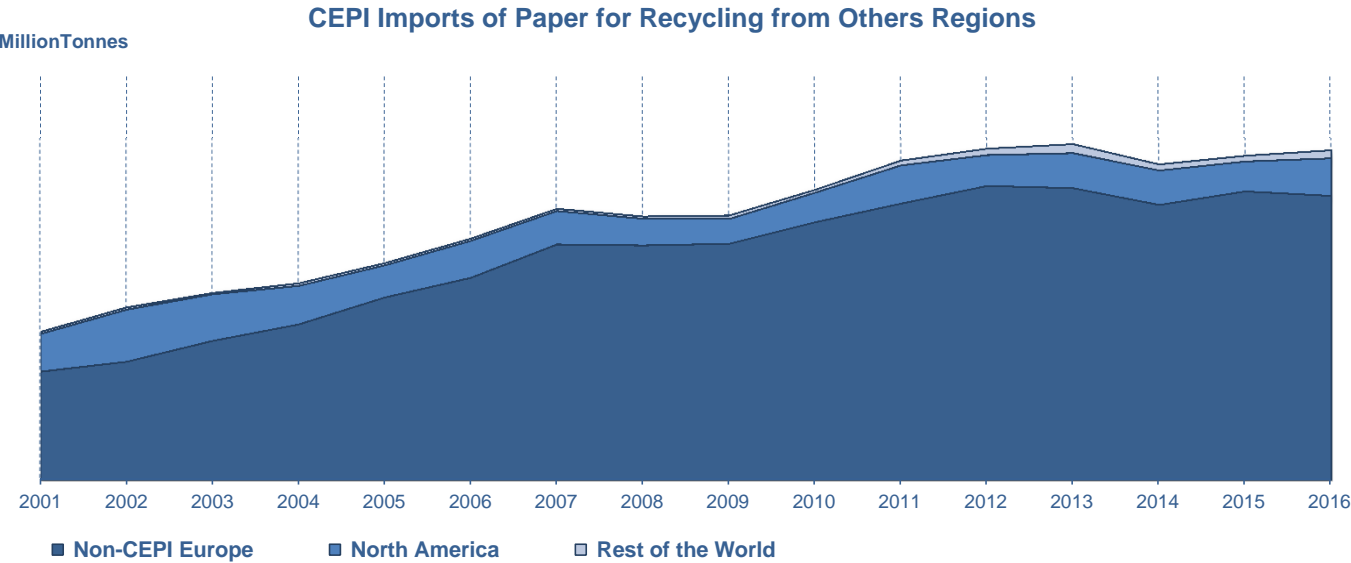


## CEPI Imports of Paper for Recycling by Country in 2016

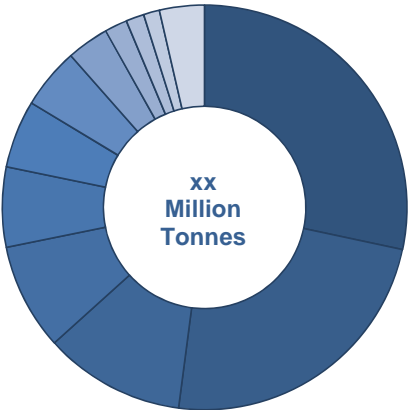
'000 Tonnes		Bulgaria	Croatia	Cyprus	Denmark	Estonia	Greece	Ireland	Latvia	Lithuania	Lux	Malta	Non-CEPI EU Countries	Russian Federation	Turkey	Switzerland	Other Europe	Total Non-CEPI Europe
Austria																		
Belgium																		
Czech Republic																		
Finland																		
France																		
Germany																		
Hungary																		
Italy																		
Netherlands																		
Norway																		
Poland																		
Portugal																		
Romania																		
Slovakia																		
Slovenia																		
Spain																		
Sweden																		
United Kingdom																		
<b>Total CEPI</b>																		

## CEPI Imports of Paper for Recycling by Country in 2016

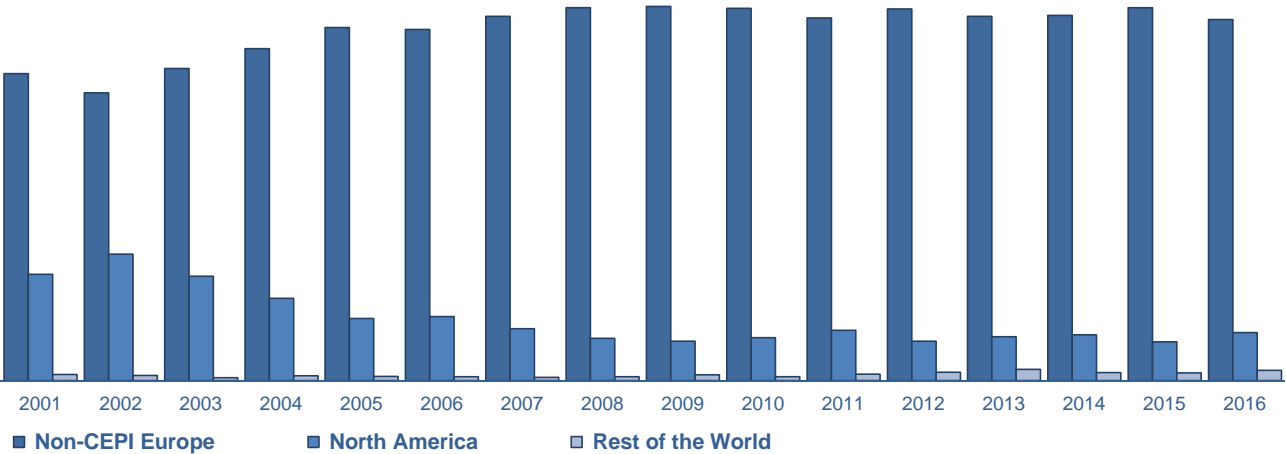
'000 Tonnes		USA	Canada	Brazil	Other Latin America	China	Japan	Other Asia	Africa	Oceania	Others	Outside Europe	Total Imports
Austria													
Belgium													
Czech Republic													
Finland													
France													
Germany													
Hungary													
Italy													
Netherlands													
Norway													
Poland													
Portugal													
Romania													
Slovakia													
Slovenia													
Spain													
Sweden													
United Kingdom													
<b>Total CEPI</b>													



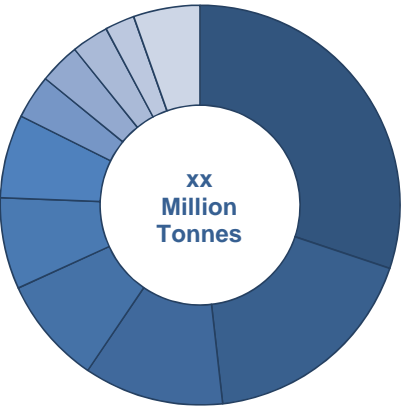
CEPI Imports by Origin in 2016



Share of CEPI Imports of Paper for Recycling from Non-CEPI Europe



Top 10 CEPI Importers\* in 2016



\* Include imports from other CEPI countries

## CEPI Imports of Paper for Recycling by Region

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
<b>Other Europe</b>															
EU Non-CEPI Countries															
Russian Federation															
Switzerland															
Turkey															
Others															
<b>North America</b>															
United States															
Canada															
<b>Latin America</b>															
Brazil															
Other Latin America															
<b>Asia</b>															
China															
Japan															
Other Asia															
<b>Others</b>															
Africa															
Oceania															
Others															
<b>Total Exports</b>															

CEPI Imports of Paper for Recycling by Country<sup>1</sup>

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
Austria															
Belgium															
Czech Republic															
Finland															
France															
Germany															
Hungary															
Italy															
Netherlands															
Norway															
Poland															
Portugal															
Romania															
Slovakia															
Slovenia															
Spain															
Sweden															
United Kingdom															
<b>Total CEPI</b>															

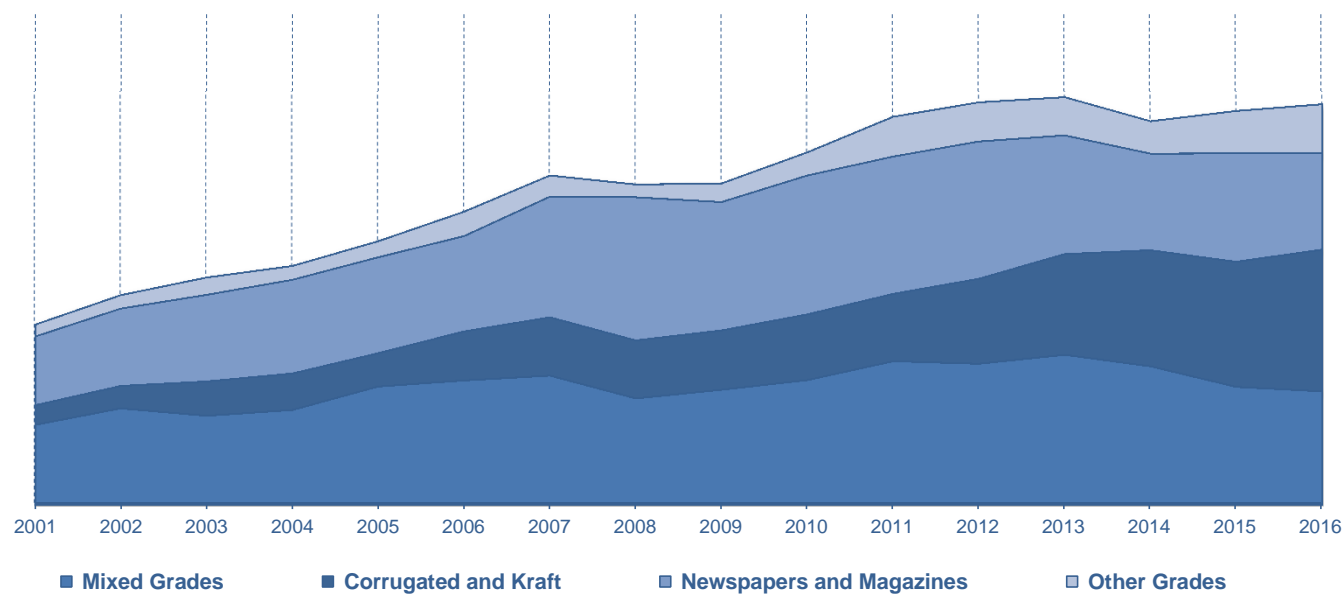
<sup>1</sup> Include imports from other CEPI countries

CEPI Imports of Paper for Recycling by Grade

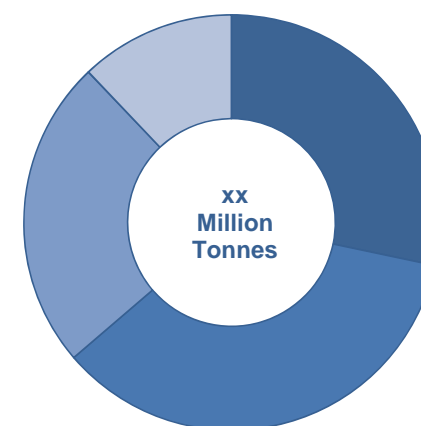
'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
Mixed Grades															
Corrugated and Kraft															
Newspapers and Magazines															
Other Grades															
<b>Total Paper for Recycling</b>															

CEPI Imports of Paper for Recycling by Grade

MillionTonnes



CEPI Imports by Grade in 2016





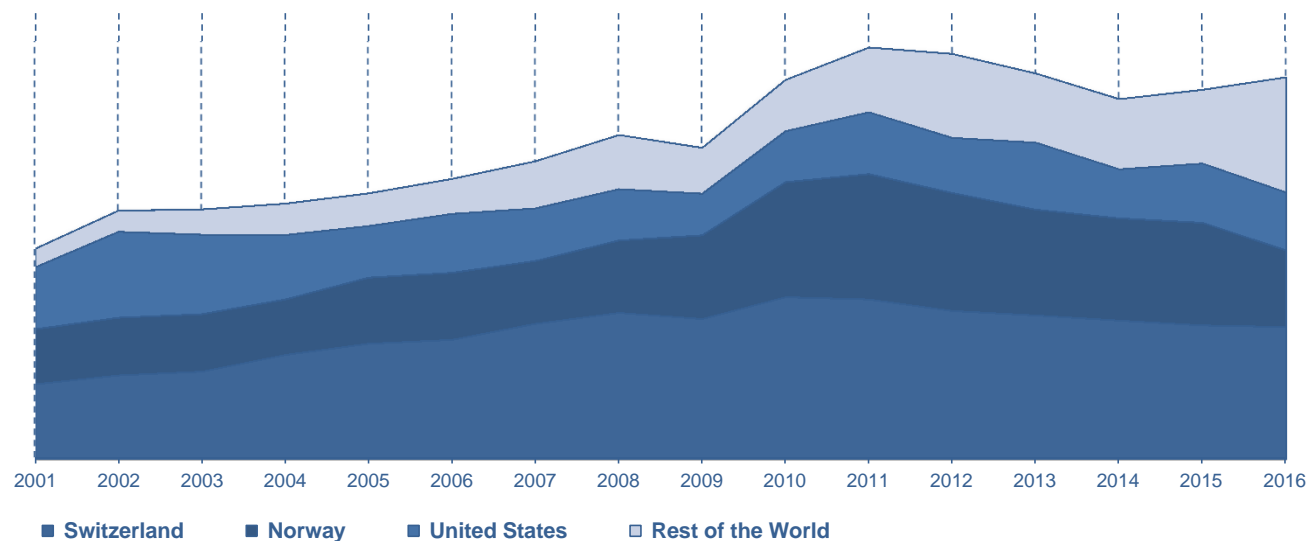
EU-28 Imports of Paper for Recycling by Origin

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
Switzerland															
Norway															
United States															
Serbia															
Bosnia & Herzegovina															
Iceland															
Macedonia															
Rest of the World															
World															

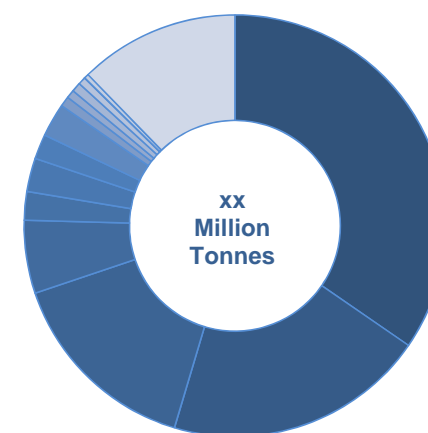
Commodity: 4707, Waste And Scrap Of Paper Or Paperboard - Source: GTIS

EU-28 Imports of Paper for Recycling by Origin

Million Tonnes



EU-28 Imports by Origin in 2016



China Imports of Paper for Recycling by Origin

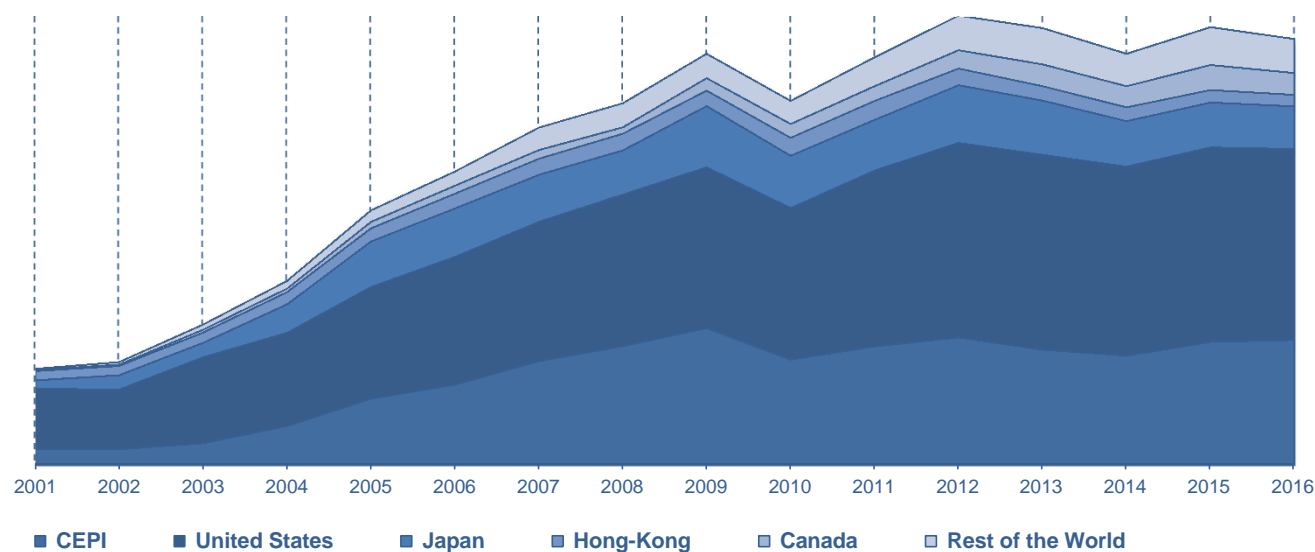
'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
CEPI															
United States															
Japan															
Hong-Kong															
Canada															
Rest of the World															
World															

Source: GTIS

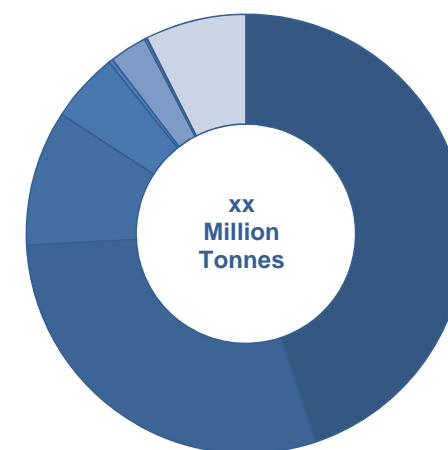
Commodity: 4707, Waste And Scrap Of Paper Or Paperboard

China Imports of Paper for Recycling by Origin

Million Tonnes



China Imports by Origin in 2016



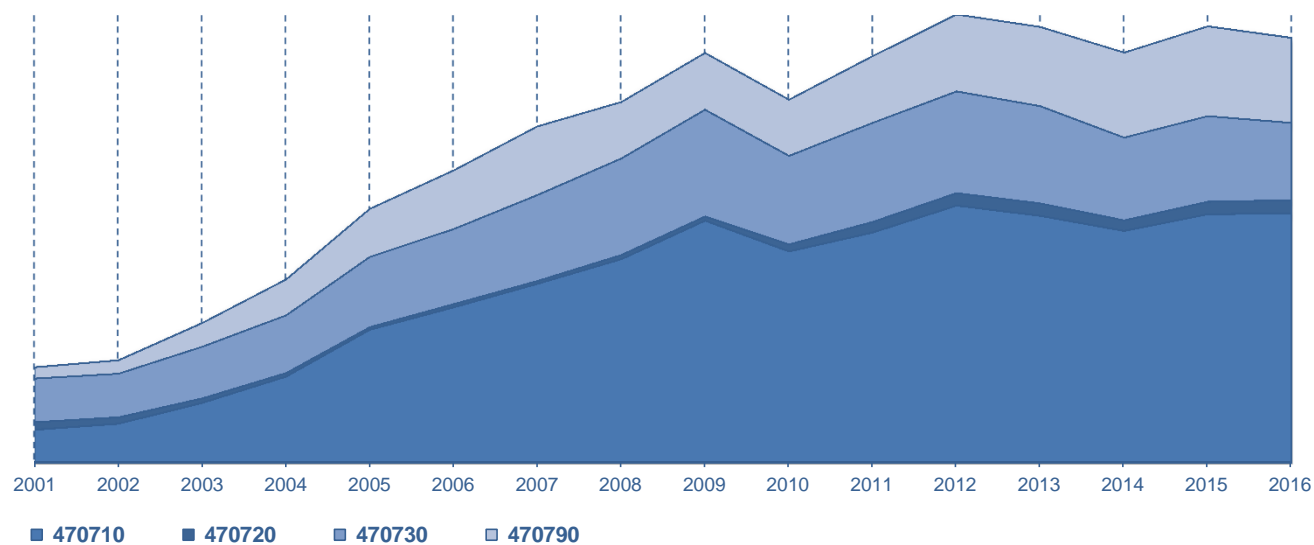
China Imports of Paper for Recycling by Grade

'000 Tonnes	2001	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	% Chge vs. 2015	% Share of Total
470710															
470720															
470730															
470790															
<b>Total 4707</b>															

Source: GTIS

China Imports of Paper for Recycling by Grade

Million Tonnes



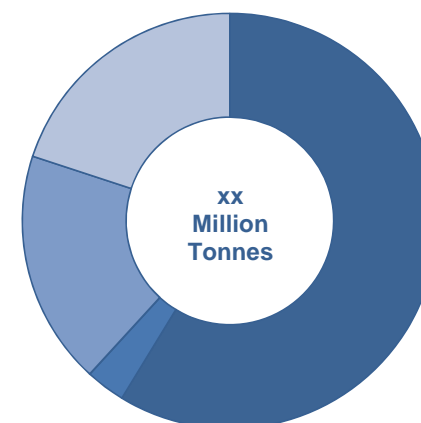
470710 - Waste And Scrap Of Unbleached Kraft Paper Or Paperboard Or Of Corrugated Paper Or Paperboard

470720 - Recovered (Waste And Scrap) Paper Or Paperboard, Made Mainly Of Bleached Chemical Pulp, Not Colored In The Mass

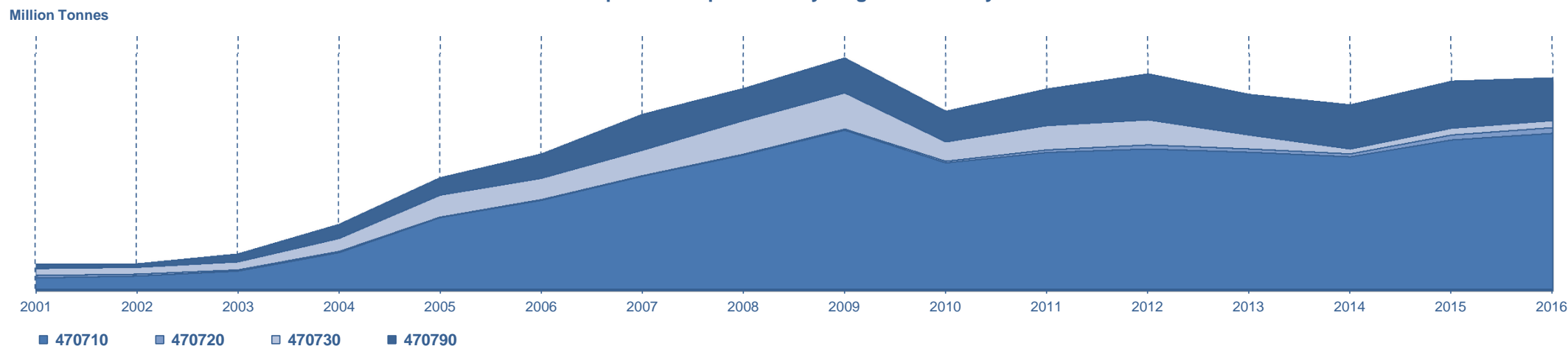
470730 - Recovered (Waste And Scrap) Paper Or Paperboard, Made Mainly Of Mechanical Pulp (For Example, Newspapers, Journals And Similar Printed Matter)

470790 - Waste And Scrap Of Paper Or Paperboard, Nesoi, Including Unsorted Waste And Scrap

China Imports by Grade in 2016



China Imports of Paper for Recycling from CEPI by Grade



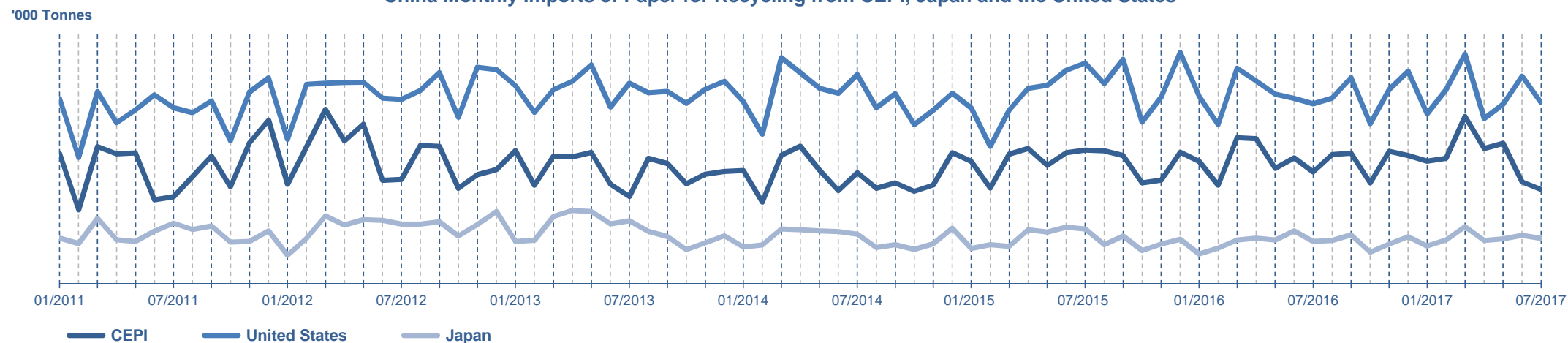
470710 - Waste And Scrap Of Unbleached Kraft Paper Or Paperboard Or Of Corrugated Paper Or Paperboard

470720 - Recovered (Waste And Scrap) Paper Or Paperboard, Made Mainly Of Bleached Chemical Pulp, Not Colored In The Mass

470730 - Recovered (Waste And Scrap) Paper Or Paperboard, Made Mainly Of Mechanical Pulp (For Example, Newspapers, Journals And Similar Printed Matter)

470790 - Waste And Scrap Of Paper Or Paperboard, Nesoi, Including Unsorted Waste And Scrap

China Monthly Imports of Paper for Recycling from CEPI, Japan and the United States



Commodity: 4707, Waste And Scrap Of Paper Or Paperboard

## CEPI uses the European Union Geonomenclature for its statistics

### Europe

#### CEPI Countries

Austria, Belgium, Czech Republic, Finland, France, Germany, Hungary, Italy, The Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, United Kingdom.

#### Other Europe than CEPI Countries

Albania, Andorra, Belarus, Bosnia-Herzegovina, Bulgaria, Croatia, Cyprus, Denmark, Estonia, Faeroe Islands, Gibraltar, Greece, Iceland, Ireland, Isle of Man, Kosovo, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malta, Moldova (Republic of), Monaco, Montenegro, Russian Federation, San Marino, Serbia, Svalbard & Jan Mayen Islands, Switzerland, Turkey, Ukraine, Vatican City State.

### EU-28 Countries

Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, The Netherlands, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, United Kingdom.

### Africa

Algeria, Angola, Benin, Botswana, British Indian Ocean Territory, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Ceuta, Chad, Comoros, Congo, Congo (Democratic Republic), Cote d'Ivoire, Djibouti, Egypt, Equatorial Guinea, Eritrea, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Libyan Arab Jamahiriya, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mayotte, Melilla, Morocco, Mozambique, Namibia, Niger, Nigeria, Reunion, Rwanda, Saint Helena, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, Sudan, Swaziland, Tanzania, Togo, Tunisia, Uganda, Western Sahara, Zambia, Zimbabwe.

### Asia

Afghanistan, Armenia, Azerbaijan, Bahrain, Bangladesh, Bhutan, Brunei, Darussalam, Cambodia, China, Georgia, Hong Kong, India, Indonesia, Iran, Iraq, Israel, Japan, Jordan, Kazakhstan, Korea (Democratic People's Republic of), Korea (Republic of(S)), Kuwait, Kyrgyzstan, Lao People's Democratic Republic, Lebanon, Macao, Malaysia, Maldives, Mongolia, Myanmar, Nepal, Oman, Pakistan, Philippines, Qatar, Saudi Arabia, Singapore, Sri Lanka, Syrian Arab Republic, Taiwan, Tajikistan, Thailand, Timor Leste, Turkmenistan, United Arab Emirates, Uzbekistan, Viet Nam, West bank /Gaza, Yemen.

### Latin America

Anguilla, Antigua & Barbuda, Argentina, Aruba, Bahamas, Barbados, Belize, Bermuda, Bolivia, Brazil, Cayman Islands, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, Falkland Islands (Malvinas), French Guiana, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Montserrat, Netherlands Antilles, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, Saint Kitts and Nevis, Saint Lucia, Saint Vincent & Grenadines, Sint-Maarten (France), Suriname, Trinidad & Tobago, Turks & Caicos Islands, Uruguay, Venezuela, Virgin Islands (British), Virgin Islands (U.S.).

### North America

Canada, Greenland, Saint Pierre and Miquelon, United States.

### Rest of the World

American Samoa, Antarctica, Australia, Bouvet Island, Christmas Island, Cocos (Keeling) Islands, Cook Islands, Fiji, French Polynesia, French Southern Territories, Guam, Hawaiian Islands (U.S.), Heard & McDonald Islands, Kiribati, Marshall Islands, Micronesia (Federated States of), Nauru, New Caledonia, New Zealand, Niue, Norfolk Island, Northern Mariana Islands, Palau, Papua New Guinea, Pitcairn, Samoa, Solomon Islands, South Georgia & South Sandwich Islands, Tokelau, Tonga, Tuvalu, US Minor Outlying Islands, Vanuatu, Wallis & Futuna Islands.

## Wood

### Wood Consumption

The wood used for pulp and paper manufacturing is mainly constituted of the following assortments: pulpwood (roundwood other than sawlogs, from silvicultural measures such as thinning or final felling), chips and residues from sawmills. The utilisation of sawlogs is very limited and sawdust volumes consumed are negligible. The relative shares of softwood and hardwood used depend on the country considered and the pulp and paper grades produced. The main softwood species used are pine and spruce. The main hardwood species used are birch, eucalyptus, beech and aspen. Oak is hardly used.

The wood consumption figures reported by the pulp and paper companies and included in the CEPI statistics are the volumes of wood at the mill gates and come from domestic supply or imports.

### Roundwood

Logs and branches

### Chips

Logs and branches which have been processed into chips (particles of wood).

### Hardwood

The wood from non-coniferous (broadleaved) trees (trees that do not have needles or cones).

### Softwood

The wood from coniferous trees.

### Wood - Solid Under Bark

The volume of wood excluding the bark

## Pulp

### Market Pulp Production

Pulp for sale in the open market and does not include pulp used in own plant or shipped to wholly owned or associated companies within the country. All pulp moving outside the producing country is considered to be market pulp.

### Pulp Grades

#### Mechanical Pulps

**Stone groundwood:** pulp produced by grinding wood into relatively short fibres. This pulp is used mainly in newsprint and wood-containing papers, like LWC (light-weight coated) and SC papers. CEPI Harmonised Code is 923 000 000.

**Thermo-mechanical (TMP):** pulp produced in a thermo-mechanical process where wood particles are softened by steam before entering a pressurised refiner. TMP has mainly the same end-uses as stone groundwood. Variants of the above two processes produce pressurised stone groundwood pulp and refiner mechanical pulp. CEPI Harmonised Code is 923 400 000.

#### Semi-Chemical Pulps

**Semi-chemical:** pulp produced in a two-stage process which involves partial digestion with chemicals, followed by mechanical treatment in a disc refiner. This pulp is mainly used in the production of fluting medium for corrugated board. CEPI Harmonised Code is 921 000 000.

**Chemi-thermomechanical (CTMP):** pulp produced in a similar way to TMP, but the wood particles are chemically treated before entering the refiner. This pulp has properties suited to tissue manufacture. Some CTMP is used in printing and writing grades. CTMP is classified under semi-chemical pulps in the Harmonised System of the Customs Co-operation Council. In the FAO, as well as in other industry statistics, such chemi-thermomechanical pulps are grouped with mechanical pulp.

#### Chemical Pulps

**Sulphite:** pulp produced by cooking wood chips in a pressure vessel in the presence of bisulphite liquor. End-uses range from newsprint, printing and writing papers, tissue and sanitary papers. Sulphite can be either bleached or unbleached. CEPI Harmonised Code is 922 200 000.

**Sulphate (or kraft):** pulp produced by cooking wood chips in pressure vessels in the presence of a sodium hydroxide (soda) liquor. The pulp may be unbleached or bleached. End-uses are widespread, with bleached pulp particularly used for graphic papers, tissue and carton boards. Unbleached pulp is commonly used in liner for corrugated board, wrappings, sack and bag papers, envelopes and other unbleached speciality papers. CEPI Harmonised Code is 922 100 000.

#### Other Pulps

Pulp produced from fibres other than wood, such as sugar cane bagasse, wheat straw, kenaf, cotton rags and hemp.

## Paper for Recycling

To clarify the intended use of collected paper for recycling in paper mills, it has been decided to substitute the term “recovered paper” by “paper for recycling”. This change anticipates the forthcoming revision of the EN 643 “European List of standard grades of paper and board for recycling”.

### Utilisation

Use of paper for recycling as raw material.

Volumes entering the mill gates. Mill broke are not included.

### Recovery

Principle of waste management policy including reuse, material recycling, composting and energy recovery as well as exports for similar purposes.

### Recycling

Reprocessing of paper for recycling in a production process for the original purpose or for other purposes, including composting but excluding energy recovery.

### Collection

separate collection of paper and paper products from industrial and commercial outlets, from households and offices for recovery.

(Collection includes transport to the sorting or recycling plant/paper mill.)

Collection = utilisation plus exports minus imports of paper for recycling.

### Utilisation Rate

Percentage of paper for recycling utilisation compared to the total paper production.

**Important Note:** Paper for recycling is composed of fibres but also unusable materials - non-paper components as well as paper and board detrimental to production. The share of unusable materials depends on the actual sorting and collection of used paper. It varies according to recovered paper grades and countries. The volume of recycled fibres actually used to produce new paper is therefore lower than the volume of recovered paper considered. The utilisation rate compares paper for recycling utilisation to paper production.

### Recycling Rate

Percentage of paper for recycling "utilisation + net trade" compared to total paper consumption.

## Paper for Recycling Classes

### Class I - Mixed Grades

Waste and scrap of paper or paperboard, including unsorted waste and scrap.

### Class II - Corrugated and Kraft

Unbleached kraft paper or paperboard or corrugated paper or paperboard.

### Class III - Newspapers and Magazines

Paper or paperboard made mainly of mechanical pulp (for example, newspapers, journals and similar printed matter). Including old and unsold newspapers and magazines, telephone directories, brochures and printed advertising material.

### Class IV - Other Grades

Other paper or paperboard made mainly of bleached chemical pulp, not coloured in the mass.

## Groups of Paper for Recycling Grades

According to the EN 643 “European List of Standard Grades of Paper for Recycling and Board”, the following is the official paper for recycling grade listing:

Mixed Grades: 1.01.00, 1.02.00, 1.03.00, 5.01.00, 5.02.00, 5.03.00, 5.03.01, 5.05.00, 5.05.01, 5.05.02, 5.11.00

Corrugated and Kraft: 1.04.00, 1.04.01, 1.04.02, 1.05.00, 1.05.01, 4.01.00, 4.01.01, 4.02.00, 4.03.00, 4.04.00, 4.05.00, 4.06.00, 4.07.00, 4.08.00, 5.04.00, 5.08.00, 5.12.00, 5.12.01, 5.13.00, 5.13.01

Newspapers and Magazines: 1.06.00, 1.06.01, 1.06.02, 1.07.00, 1.09.00, 1.11.00, 2.01.00, 2.02.00, 2.02.01

Other Grades: 2.03.00, 2.03.01, 2.04.00, 2.04.01, 2.05.00, 2.05.01, 2.06.00, 2.06.01, 2.07.00, 2.07.01, 2.08.00, 2.10.00, 2.11.00, 2.12.00, 2.13.00, 2.14.00, 2.14.01, 3.01.00, 3.02.00, 3.03.00, 3.03.01, 3.04.00, 3.05.00, 3.05.01, 3.06.00, 3.08.00, 3.09.00, 3.10.00, 3.10.01, 3.11.00, 3.11.01, 3.12.00, 3.13.00, 3.14.00, 3.15.00, 3.15.01, 3.16.00, 3.16.01, 3.17.00, 3.18.00, 3.18.01, 3.18.02, 3.19.00, 3.20.00, 3.20.01, 5.05.03, 5.06.00, 5.06.01, 5.07.00, 5.07.01, 5.09.00, 5.10.00, 5.10.01, 5.14.00, 5.14.01

## Paper & Board

### Paper & Board Consumption

Production + Imports from other CEPI Countries + Imports from outside CEPI – Exports to other CEPI Countries – Exports to outside CEPI

### Paper & Board Grades

#### Graphic Papers

**Newsprint:** paper mainly used for printing newspapers. It is made largely from mechanical pulp and/or recovered paper, with or without a small amount of filler. Weights usually range from 40 to 52g/m<sup>2</sup> but can be as high as 65g/m<sup>2</sup>. Newsprint is machine-finished or slightly calendered, white or slightly coloured and is used in reels for letterpress, offset or flexo-printing.

The CEPI Harmonised Code for Newsprint is 100 000 000.

**Uncoated mechanical:** paper suitable for printing or other graphic purposes where less than 90% of the fibre furnish consists of chemical pulp fibres. This grade is also known as groundwood or wood-containing paper and magazine paper, such as heavily filled super-calendered paper for consumer magazines printed by the rotogravure and offset methods.

The CEPI Harmonised Code for Uncoated Mechanical is 211 000 000.

**Uncoated woodfree:** paper suitable for printing or other graphic purposes, where at least 90% of the fibre furnish consists of chemical pulp fibres. Uncoated woodfree paper can be made from a variety of furnishes, with variable levels of mineral filler and a range of finishing processes such as sizing, calendering, machine-glazing and watermarking. This grade includes most office papers, such as business forms, copier, computer, stationery and book papers. Pigmented and size press “coated” papers (coating less than 5g per side) are covered by this heading. The CEPI Harmonised Code for Uncoated Woodfree is 231 000 000.

**Coated papers:** all paper suitable for printing or other graphic purposes and coated on one or both sides with minerals such as china clay (kaolin), calcium carbonate, etc. Coating may be by a variety of methods, both on-machine and off-machine, and may be supplemented by super-calendering. Coated Mechanical papers are made of fibres produced mainly (90%) by a mechanical pulping process and are also known as coated groundwood. Coated Woodfree papers are made of fibres produced mainly (90%) by a chemical pulping process and are also known as coated freesheet.

The CEPI Harmonised Code for Coated Mechanical is 212 000 000 and for Coated Woodfree is 232 000 000.

#### Sanitary and Household

This covers a wide range of tissue and other hygienic papers for use in households or commercial and industrial premises. Examples are toilet paper and facial tissues, kitchen towels, hand towels and industrial wipes. Some tissue is also used in the manufacture of baby nappies, sanitary towels, etc. The parent reel stock is made from virgin pulp or recovered fibre or mixtures of these. It is reported in the production statistics at parent reel weight before conversion to finished products. Import and export statistics however take into account trade in both parent reels and finished products.

The CEPI Harmonised Code for Sanitary and Household is 700 000 000.

#### Packaging Papers

**Case materials:** papers and boards mainly used in the manufacture of corrugated board. They are made from any combination of virgin and recovered fibres and can be bleached, unbleached or mottled. Fluting is the middle ply with outer layers called the liners. Included are kraftliner, testliner, semi-chemical fluting, and recovered paper-based fluting (Wellenstoff). Main uses include corrugated boxes, transport packaging, storage and product display. Also known as containerboard, corrugated case materials, cardboard, linerboard or corrugating medium. The CEPI Harmonised Code for Case Materials is 300 000 000.

**Cartonboard (can also be written as Carton Board):** may be single or multiply, coated or uncoated. It is made from virgin and/or recovered fibres, and has good folding properties, stiffness and scoring ability. It is mainly used in cartons for consumer products such as frozen food, cosmetics and for liquid containers. Also known as solid board, folding box board, boxboard or carrier board.

The CEPI Harmonised Code for Cartonboard is 400 000 000.

**Wrappings (up to 150 g/m<sup>2</sup>):** papers whose main use is wrapping or packaging made from any combination of virgin or recovered fibres, bleached or unbleached. They may be subject to various finishing and/or marking processes. Included are sack kraft, other wrapping kraits, sulphite and grease-proof papers. The CEPI Harmonised Code for Wrappings is 500 000 000.

**Other Paper & Board for Packaging:** this category embraces all paper and board mainly for packaging purposes other than those listed above. Most are produced from recovered fibres, e.g. greyboards, and go for conversion, which in some cases may be for end-uses other than packaging including book covers and games. Also known as greyboard or unlined chip.

The CEPI Harmonised Code for Other Packaging is 600 000 000.

#### Other Paper & Board

Other paper and board for industrial and special purposes: This wide ranging category includes cigarette papers and filter papers, as well as gypsum liners and special papers for waxing, insulating, roofing, asphaltting, and other specific applications or treatments. The CEPI Harmonised Code for Special Paper and Board is 800 000 000.



## Definitions

More information and details related to the definitions and descriptions of terms and categories used in the European Paper Industry can be found in the new CEPI booklet "Pulp and Paper Industry - Definitions and Concepts".

<http://www.cepi.org/topics/statistics>

## CEPI Harmonised Codes

More information about the CEPI Harmonised Code Structure and CEPI Harmonised Grade List is available on the CEPI website ([www.cepi.org](http://www.cepi.org))

### Paper & Board

100 000 000 - Newsprint: All Grades  
 211 000 000 - Uncoated Mechanical Graphics: All Grades  
 231 000 000 - Uncoated Woodfree Graphics: All Grades  
 212 000 000 - Coated Mechanical Graphics: All Grades  
 232 000 000 - Coated Woodfree Graphics: All Grades  
 300 000 000 - Corrugated Case Materials: All Grades  
 400 000 000 - Carton Board: All Grades  
 500 000 000 - Wrappings < 125gsm: All Grades  
 600 000 000 - Other Paper and Board for Packaging: All Grades  
 700 000 000 - Sanitary and Household Papers: All Grades  
 800 000 000 - Special Paper and Board: All Grades

### Pulp

923 000 000 - Mechanical Pulp  
 922 000 000 - Chemical Pulp  
 922 200 000 - Sulphite Pulp  
 922 100 000 - Sulphate Pulp

## European Classifications

Pulp and Paper Industry Activities are classified under these NACE 2 Headings:

C17 Manufacture of paper and paper products  
 C17.1 Manufacture of pulp, paper and paperboard  
   C17.1.1 Manufacture of pulp  
   C17.1.2 Manufacture of paper and paperboard  
 C17.2 Manufacture of articles of paper and paperboard  
   C17.2.1 Manufacture of corrugated paper and paperboard and of containers of paper and paperboard  
   C17.2.2 Manufacture of household and sanitary goods and of toilet requisites  
   C17.2.3 Manufacture of paper stationery  
   C17.2.4 Manufacture of wallpaper  
   C17.2.9 Manufacture of other articles of paper and paperboard

In general data reported to CEPI would be classified under:

C17 Manufacture of paper and paper products  
 C17.1 Manufacture of pulp, paper and paperboard  
   C17.1.1 Manufacture of pulp  
   C17.1.2 Manufacture of paper and paperboard

## External Trade activities

External Trade activities relating to the pulp and paper industries are classified under Chapters 47 and 48 of the Combined Nomenclature. For further details of the Combined Nomenclature see:

[http://ec.europa.eu/taxation\\_customs/customs/customs\\_duties/tariff\\_aspects/combined\\_nomenclature/index\\_en.htm](http://ec.europa.eu/taxation_customs/customs/customs_duties/tariff_aspects/combined_nomenclature/index_en.htm)

## Country Coding (ISO Standard 3166)

Austria: AT - Belgium: BE - Czech Republic: CZ - Finland: FI - France: FR - Germany: DE - Hungary: HU - Italy: IT - The Netherlands: NL - Norway: NO - Poland: PL - Portugal: PT - Romania: RO - Slovakia: SK - Slovenia: SI - Spain: ES - Sweden: SE - United Kingdom: UK

## Alignment of Combined Nomenclature Product Headings with CEPI Grades for 2016

Newsprint	Uncoated Mechanical	Uncoated Woodfree	Coated Mechanical	Coated Woodfree	Sanitary and Household	Case Materials	Cartonboard	Wrappings up to 150gsm	Other Paper and Board for Packaging	All Other Paper and Board
4801 00 00	4802 61 15	4802 10 00	4810 22 00	4809 20 00	4803 00 10	4804 11 11	4804 42 00	4804 21 10	4805 93 20	4802 40 10
	4802 61 80	4802 20 00	4810 29 30	4810 13 00	4803 00 31	4804 11 15	4804 49 00	4804 21 90	4807 00 30	4802 40 90
	4802 62 00	4802 54 00	4810 29 80	4810 14 00	4803 00 39	4804 11 19	4804 51 00	4804 29 10	4807 00 80	4804 31 51
	4802 69 00	4802 55 15		4810 19 00	4803 00 90	4804 11 90	4804 52 00	4804 29 90	4823 70 10	4804 41 91
		4802 55 25		4816 20 00	4818 10 10	4804 19 12	4804 59 10	4804 31 58	4823 70 90	4804 41 98
		4802 55 30		4816 90 00	4818 10 90	4804 19 19	4804 59 90	4804 31 80		4805 40 00
		4802 55 90			4818 20 10	4804 19 30	4805 92 00	4804 39 51		4805 50 00
		4802 56 20			4818 20 91	4804 19 90	4805 93 80	4804 39 58		4806 30 00
		4802 56 80			4818 20 99	4805 11 00	4810 32 10	4804 39 80		4809 90 00
		4802 57 00			4818 30 00	4805 12 00	4810 32 90	4805 30 00		4810 99 80
		4802 58 10				4805 19 10	4810 39 00	4805 91 00		4811 60 00
		4802 58 90				4805 19 90	4810 92 10	4806 10 00		4812 00 00
		4823 90 40				4805 24 00	4810 92 30	4806 20 00		4813 10 00
						4805 25 00	4810 92 90	4806 40 10		4813 20 00
							4811 51 00	4806 40 90		4813 90 10
							4811 59 00	4808 40 00		4813 90 90
								4808 90 00		4823 20 00
								4810 31 00		
								4810 99 10		
	4701 00 10	4704 11 00	4703 11 00	4706 10 00						
	4701 00 90	4704 19 00	4703 19 00	4706 20 00						
	4705 00 00	4704 21 00	4703 21 00	4706 30 00						
		4704 29 00	4703 29 00	4706 91 00						
				4706 92 00						
				4706 93 00						

Grade	Sector Alignment	Grade	Sector Alignment	Grade	Sector Alignment
4801 00 00	Newsprint	4804 31 58	Wrappings up to 150gsm	4809 90 00	All Other Paper and Board
4802 10 00	Uncoated Woodfree	4804 31 80	Wrappings up to 150gsm	4810 13 00	Coated Woodfree
4802 20 00	Uncoated Woodfree	4804 39 51	Wrappings up to 150gsm	4810 14 00	Coated Woodfree
4802 40 10	All Other Paper and Board	4804 39 58	Wrappings up to 150gsm	4810 19 00	Coated Woodfree
4802 40 90	All Other Paper and Board	4804 39 80	Wrappings up to 150gsm	4810 22 00	Coated Mechanical
4802 54 00	Uncoated Woodfree	4804 41 91	All Other Paper and Board	4810 29 30	Coated Mechanical
4802 55 15	Uncoated Woodfree	4804 41 98	All Other Paper and Board	4810 29 80	Coated Mechanical
4802 55 25	Uncoated Woodfree	4804 42 00	Cartonboard	4810 31 00	Wrappings up to 150gsm
4802 55 30	Uncoated Woodfree	4804 49 00	Cartonboard	4810 32 10	Cartonboard
4802 55 90	Uncoated Woodfree	4804 51 00	Cartonboard	4810 32 90	Cartonboard
4802 56 20	Uncoated Woodfree	4804 52 00	Cartonboard	4810 39 00	Cartonboard
4802 56 80	Uncoated Woodfree	4804 59 10	Cartonboard	4810 92 10	Cartonboard
4802 57 00	Uncoated Woodfree	4804 59 90	Cartonboard	4810 92 30	Cartonboard
4802 58 10	Uncoated Woodfree	4805 11 00	Case Materials	4810 92 90	Cartonboard
4802 58 90	Uncoated Woodfree	4805 12 00	Case Materials	4810 99 10	Wrappings up to 150gsm
4802 61 15	Uncoated Mechanical	4805 19 10	Case Materials	4810 99 80	All Other Paper and Board
4802 61 80	Uncoated Mechanical	4805 19 90	Case Materials	4811 51 00	Cartonboard
4802 62 00	Uncoated Mechanical	4805 24 00	Case Materials	4811 59 00	Cartonboard
4802 69 00	Uncoated Mechanical	4805 25 00	Case Materials	4811 60 00	All Other Paper and Board
4803 00 10	Sanitary and Household	4805 30 00	Wrappings up to 150gsm	4812 00 00	All Other Paper and Board
4803 00 31	Sanitary and Household	4805 40 00	All Other Paper and Board	4813 10 00	All Other Paper and Board
4803 00 39	Sanitary and Household	4805 50 00	All Other Paper and Board	4813 20 00	All Other Paper and Board
4803 00 90	Sanitary and Household	4805 91 00	Wrappings up to 150gsm	4813 90 10	All Other Paper and Board
4804 11 11	Case Materials	4805 92 00	Cartonboard	4813 90 90	All Other Paper and Board
4804 11 15	Case Materials	4805 93 20	Other Paper and Board for Packaging	4816 20 00	Coated Woodfree
4804 11 19	Case Materials	4805 93 80	Cartonboard	4816 90 00	Coated Woodfree
4804 11 90	Case Materials	4806 10 00	Wrappings up to 150gsm	4818 10 10	Sanitary and Household
4804 19 12	Case Materials	4806 20 00	Wrappings up to 150gsm	4818 10 90	Sanitary and Household
4804 19 19	Case Materials	4806 30 00	All Other Paper and Board	4818 20 10	Sanitary and Household
4804 19 30	Case Materials	4806 40 10	Wrappings up to 150gsm	4818 20 91	Sanitary and Household
4804 19 90	Case Materials	4806 40 90	Wrappings up to 150gsm	4818 20 99	Sanitary and Household
4804 21 10	Wrappings up to 150gsm	4807 00 30	Other Paper and Board for Packaging	4818 30 00	Sanitary and Household
4804 21 90	Wrappings up to 150gsm	4807 00 80	Other Paper and Board for Packaging	4823 20 00	All Other Paper and Board
4804 29 10	Wrappings up to 150gsm	4808 40 00	Wrappings up to 150gsm	4823 70 10	Other Paper and Board for Packaging
4804 29 90	Wrappings up to 150gsm	4808 90 00	Wrappings up to 150gsm	4823 70 90	Other Paper and Board for Packaging
4804 31 51	All Other Paper and Board	4809 20 00	Coated Woodfree	4823 90 40	Uncoated Woodfree