



European Printing Industry: Market Insights

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Agenda

- Introduction – Smithers Pira print research
- EU commercial printing industry
 - Printer demographics (employment, companies)
- EU print market trends
 - Market overview
 - Print product/process trends
 - Consumables & equipment
- Outlook

Who we are



3 Information Hubs

in Europe
and the US

Working with a
Global Network
of associates
consultants, freelancers
and experts

To serve a
**World-wide
Customer Base**

Delivering high value information
enabling you to make better decisions, faster

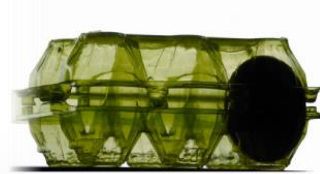
Who we serve



Print



Paper



Packaging



Food Contact



Smithers Pira

50 market reports on paper, print, packaging & other industrial areas each year


Bespoke multi-client & single-client market research and technical consultancy

Producer of 20-30 industry conferences each year

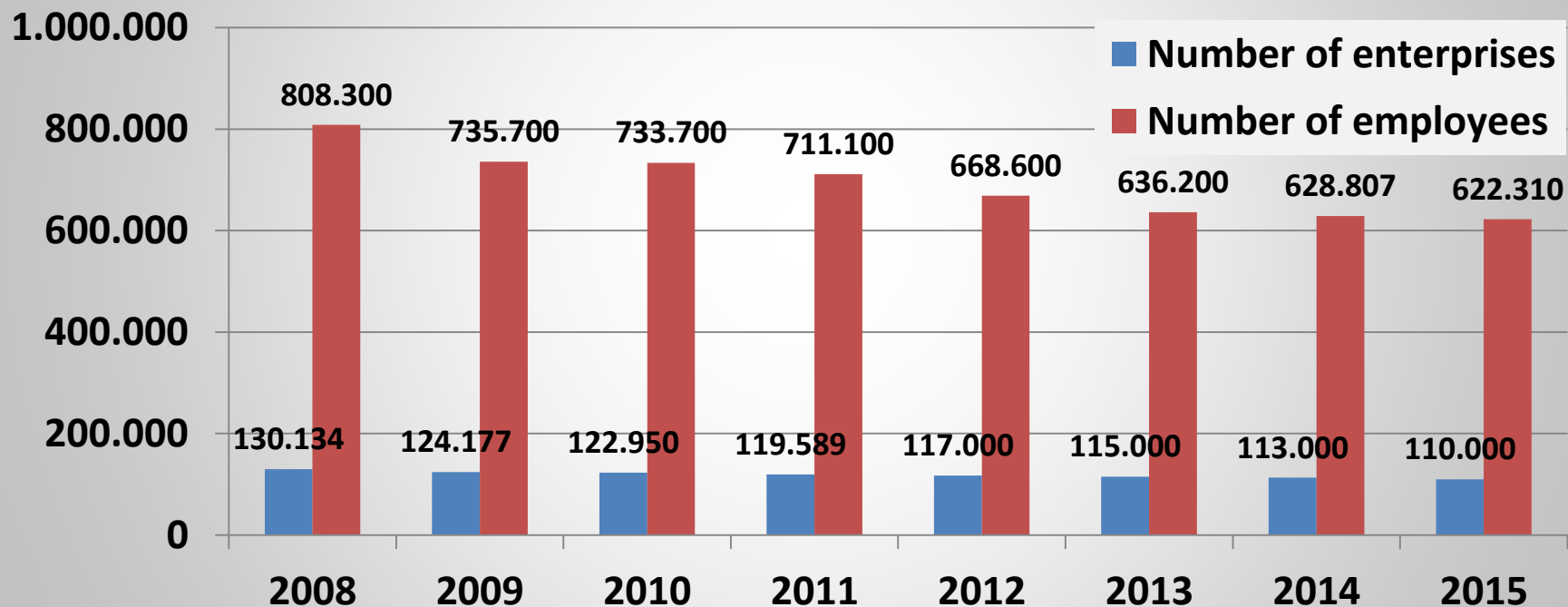
Journals & online database products

Laboratories & package testing facilities

General methodology

- 
- **Primary and secondary research, backed up by in-house technical consultants**
 - **Global network of market research associates in Europe, Asia and the Americas**
 - **Survey programs plus informal contacts with industry**
 - **Wide range of secondary sources consulted**
 - **Proprietary in-house print database and information centre**

EU28 commercial printing industry – employment and enterprises, 2008-2015



Source: Eurostat/Smithers Pira estimates

Employment levels hit by combination of declining demand and rising automation

Declines in print demand have remained the norm since 2007/8. Further consolidation and job losses have occurred but the rates of decline have flattened out somewhat since 2012

Increasing automation leading to greater efficiencies throughout the print business, including in both administration and print production. Key areas include online printing portals (e.g. VistaPrint), photobook manufacturing, self-publishing – and also standard jobbing print items

Companies increasingly adopting workflow systems that gang jobs together, often employing one makeready for multiple jobs. Prepress becoming largely automated, with plates automatically generated by workflow system. A variety of jobs can be bundled on a single plate – possibly 6 business card jobs or even 150

Print production process also becoming increasingly automated, with equipment taking instruction from admin side, normally enabled through JDF (job description format) from original order. Changeovers on modern sheetfed presses now taking less than 10 minutes for whole makeready, with minimal manual intervention required

Some stabilization in commercial printing industry output after protracted period of decline, with production value down by around one per cent in current € in 2015

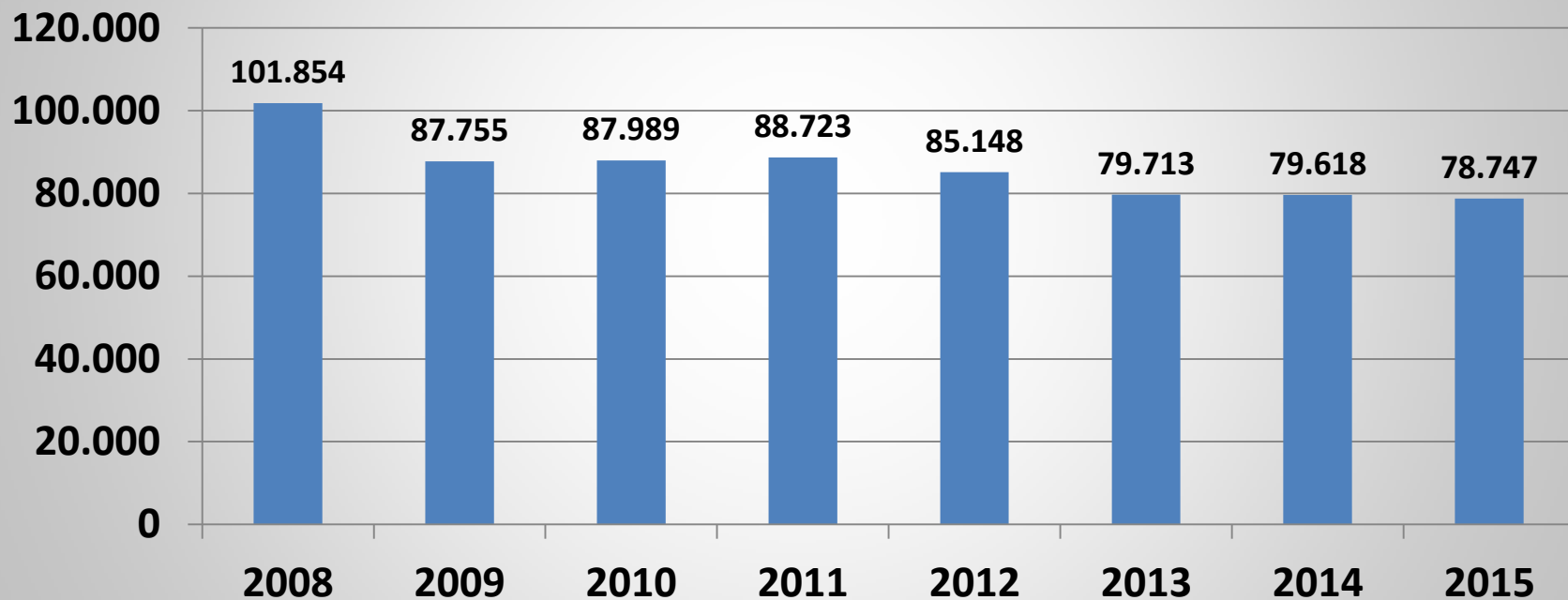
EU28 commercial printing production value, 2008: €100 billion

Sharp downturn in output in 2009 (down 14%) followed by more stable conditions in 2010/11

Annual € declines of 1.9% per annum, 2009-2014

Overall decline of 1.1% in production value in 2015 although volume declines more pronounced

Production value of EU28 printing & allied industries, 2008-2015 (€ million)



Source: Eurostat/Smithers Pira estimates

Graphic paper demand continues to decline although rates vary according to data source

EU28 printing & writing paper consumption by type, 2007-15

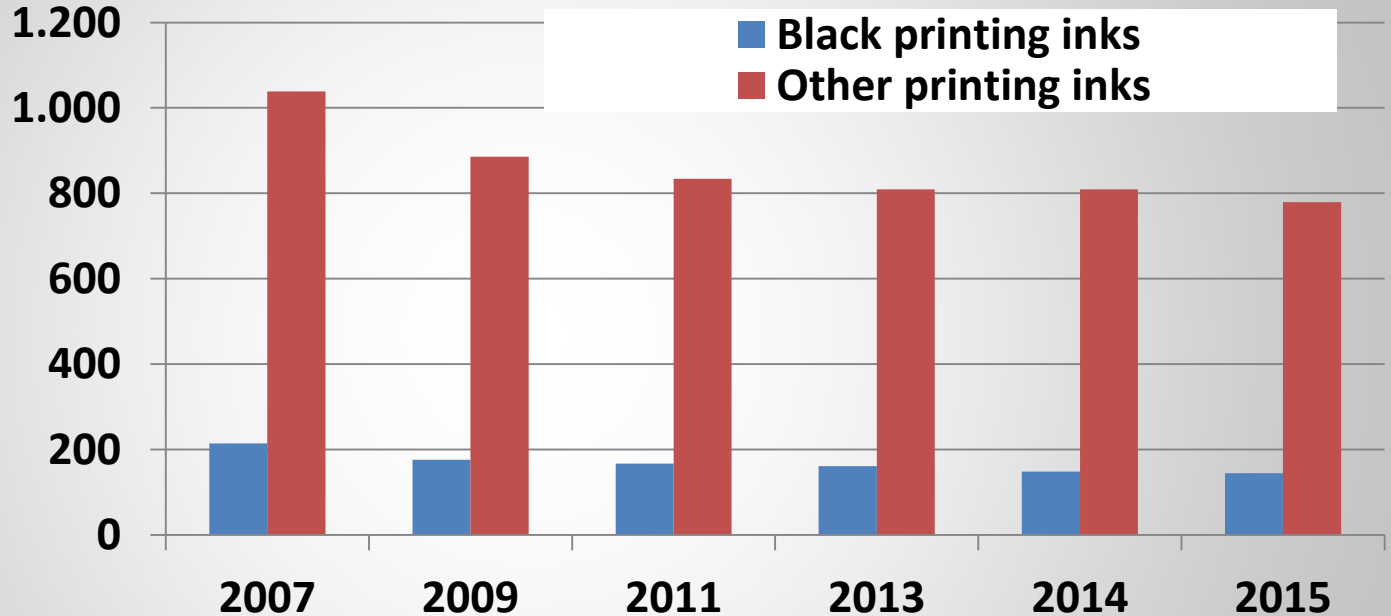
000 tonnes	Eurostat data						Eurograph			
	2007	2009	2011	2013	2014	2015	CAGR % 07/15	% C, 14-15	% C, 14-15	% C, 15-16
Newsprint	11,098	9,186	8,999	7,971	7,772	7,216	-5.2	-7.2	-7.9	-3.8
Uncoated woodfree	11,064	9,371	8,861	7,958	8,098	8,652	-3.0	6.8	-0.8	-4.1
Uncoated mechanical	5,503	4,965	3,179	5,070	4,685	4,547	-2.4	-3.0	-1.1	0.4
Coated woodfree	5,377	4,257	4,899	4,627	4,444	4,415	-2.4	-0.7	-2.3	-6.2
Coated mechanical	9,082	6,246	6,633	6,000	6,202	6,002	-5.0	-3.2	-5.4	-7.3
Total	42,124	34,025	32,571	31,626	31,202	30,831	-3.8	-1.2	-3.6	-4.2

Note: Eurostat data based on apparent consumption (production + imports – exports, does not take into account stocks; Eurograph data for Europe as a whole excluding Russian woodfree domestic deliveries

Source: Eurostat/Eurograph

Printing ink demand down 3.6% in 2015

**EU28
printing inks
demand,
2007-15
(‘000 tonnes)**



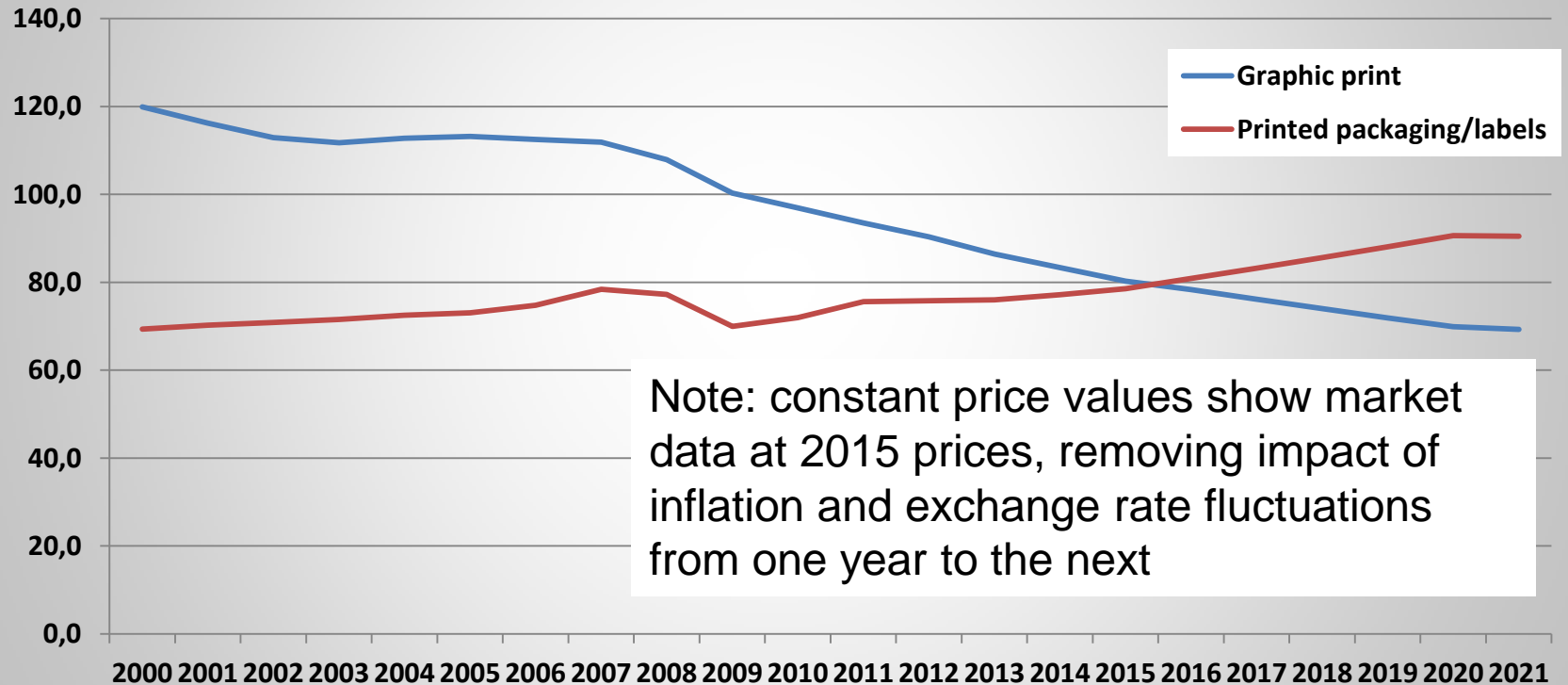
000 tonnes	2007	2009	2011	2013	2014	2015	CAGR 07/15	% C, 14-15
Black printing inks	214	176	167	161	149	144	-4.8	-2.8
Other printing inks	1,039	886	834	809	809	779	-3.5	-3.7
Total	1,253	1,062	1,001	970	958	924	-3.7	-3.6

*Source:
Eurostat*

Smithers Pira view

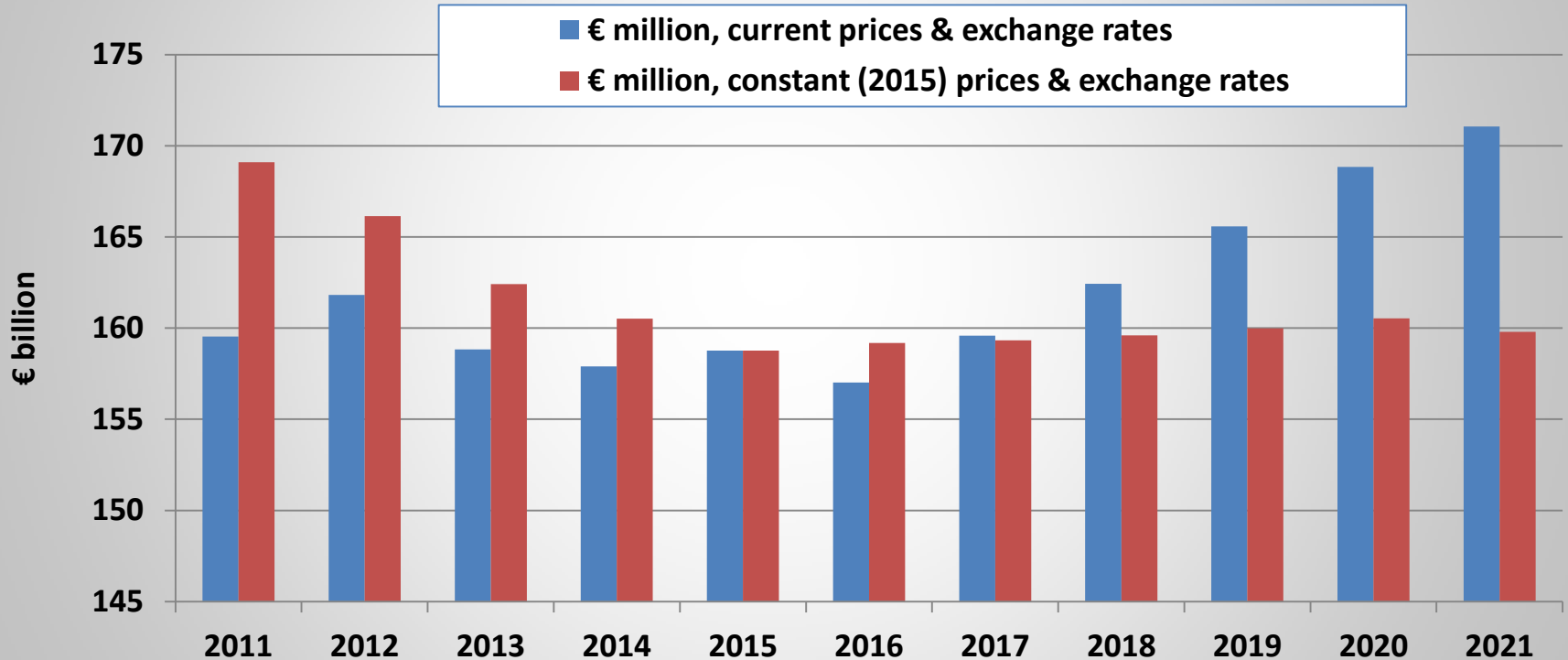
- Recently completed annual European Print Market Review for Intergraf, which forms the basis of this presentation
- European printing & packaging output down one per cent in current terms to €157 billion in 2016, but up 0.3% in real terms
- Big decline in Russian printing revenues in current terms in 2015 and 2016 in line with decline in value of the rouble
- EU-28 revenues down 0.2% in current terms but up 0.2% in constant terms in 2016
- Relatively strong performance in southern Europe after degree of rebounding in countries hit hardest by Eurozone crisis

Trends in European Printing & Printed Packaging Output, 2000-2021f (€bn, constant 2015 prices & exchange rates)



Source: *Smithers Pira*

European Printing & Printed Packaging Output, 2011-2021f



Note: constant prices remove effects of inflation and currency fluctuations

Source: Smithers Pira

Graphic print down, packaging up

- Graphic print down 2.4% in real terms to €78.3 billion in 2016
- Continuing declines in output across most graphic printing area with magazines, newspapers, catalogues and directories all down by around five per cent
- Book printing output stabilising in line with slowdown in Kindle sales and declining share of extra-EU book imports including from China, boosted by increased use of digital printing for short turnaround in line with new JIT business models
- Packaging & labels up 3.0% in real terms to €80.5 billion

European Printing & Printed Packaging Output by Print Product, 2015-2021f

	Current prices & exchange rates					Constant (2015) prices & exchange rates				
	2015	2016	% C, 15-16	2021f	CAGR (%), 16-21	2016	% C, 15-16	2021f	CAGR (%), 16-21	
Books	6.86	6.85	-0.1	6.28	-1.7	6.94	-2.5	5.91	-3.2	
Magazines	9.30	8.69	-6.6	7.72	-2.3	8.81	-8.4	7.24	-3.8	
Newspapers	6.16	5.75	-6.7	5.04	-2.6	5.82	-5.8	4.68	-4.3	
Advertising	24.67	23.70	-3.9	23.94	0.2	24.13	-2.2	22.40	-1.5	
Catalogues	3.83	3.62	-5.4	3.27	-2.0	3.63	-4.8	3.04	-3.5	
Directories	2.85	2.66	-6.7	2.24	-3.4	2.67	-6.0	2.08	-4.8	
Security	1.35	1.30	-4.1	1.23	-1.0	1.30	-2.7	1.15	-2.5	
Transactional	3.42	3.48	1.6	4.00	2.9	3.54	1.8	3.76	1.2	
Other commercial	21.81	21.16	-3.0	20.35	-0.8	21.49	-2.3	19.04	-2.4	
Packaging	71.10	72.12	1.4	87.61	4.0	73.08	1.2	81.75	2.3	
Labels	7.43	7.69	3.5	9.38	4.1	7.77	2.6	8.74	2.4	
Total	158.77	157.01	-1.1	171.06	1.7	159.18	-1.2	159.80	0.1	

Note: constant prices remove effects of inflation and currency fluctuations

Source: Smithers Pira

Newspapers

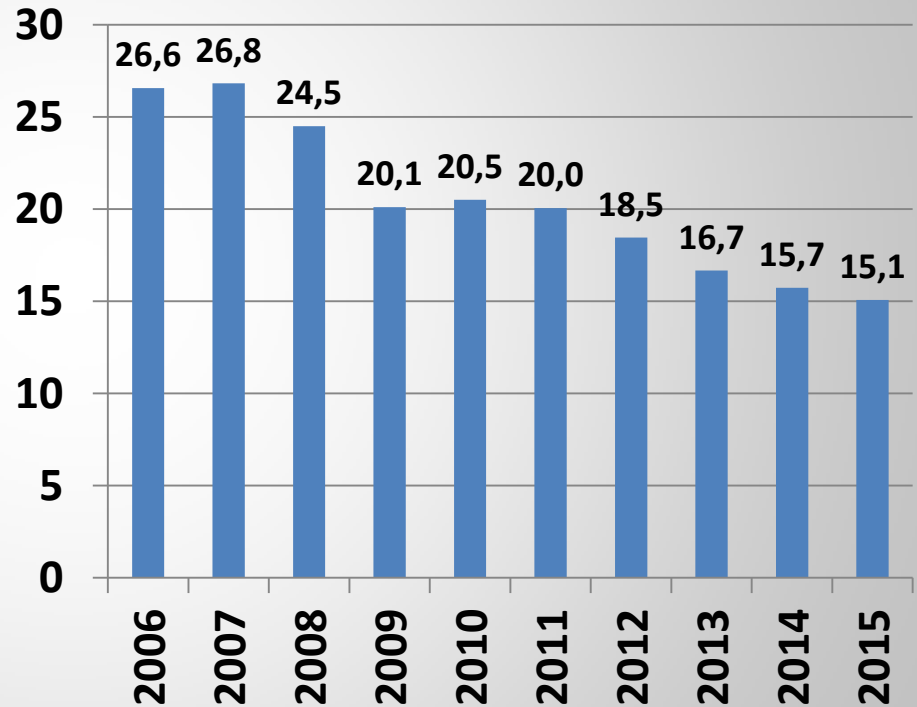
European mkt,
2016: €5.75bn

-5.8%, 2016p
(constant prices)

-4.3% p.a.,
2021f
(constant prices)

Source: Smithers Pira

European newspaper advertising expenditure, 2006-2015 (€ billion)



Source: WAN/IFRA

Magazines

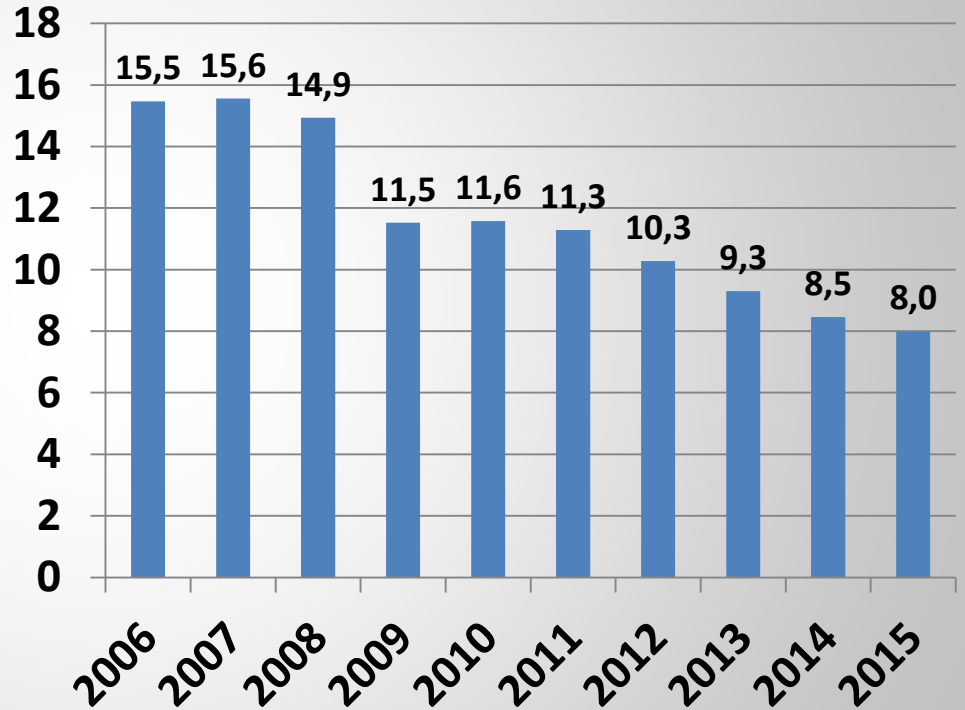
European mkt,
2016: €8.69bn

-8.4%, 2016p
(constant prices)

-3.8% p.a.,
2021f
(constant prices)

Source: Smithers Pira

European magazine advertising expenditure, 2006-2015 (€ billion)



Source: WAN/IFRA

Books

**European mkt,
2016: €6.85bn**

-2.5%, 2016p
(constant prices)

**-3.2% p.a.,
2021f**
(constant prices)

Source: Smithers Pira

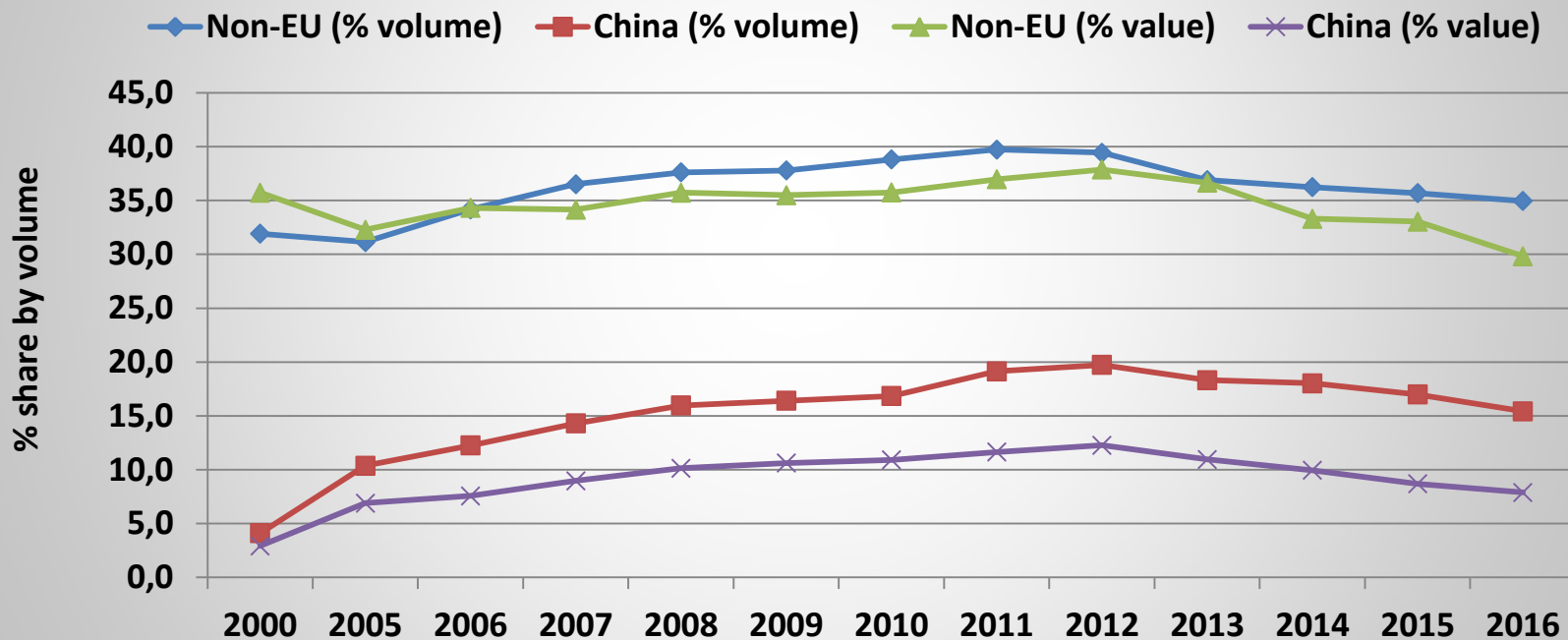
EU 28 book printing revenues by type, 2008-2015 (€ million)

	2008	2015	% change, 2008-15
Books, total	5,075	4,672	-7.9
Books, brochures, pamphlets (excl. single sheets)	4,209	4,617	9.7
- UK	829	1,795	116.5
- Excluding UK	3,380	2,822	-16.5
Children's picture, etc. books	279	33	-88.2
Dictionaries & encyclopaedias	502	14	-97.2
Map books, etc.	85	8	-90.6

Note: UK stats office data points to increase from €1.21bn in 2014 to €1.80bn in 2015. It is not guaranteed though that the same basis is used from one year to next

Source: Eurostat

Non-EU and Chinese share of EU book imports, 2000-2016



Source: Eurostat

Catalogues

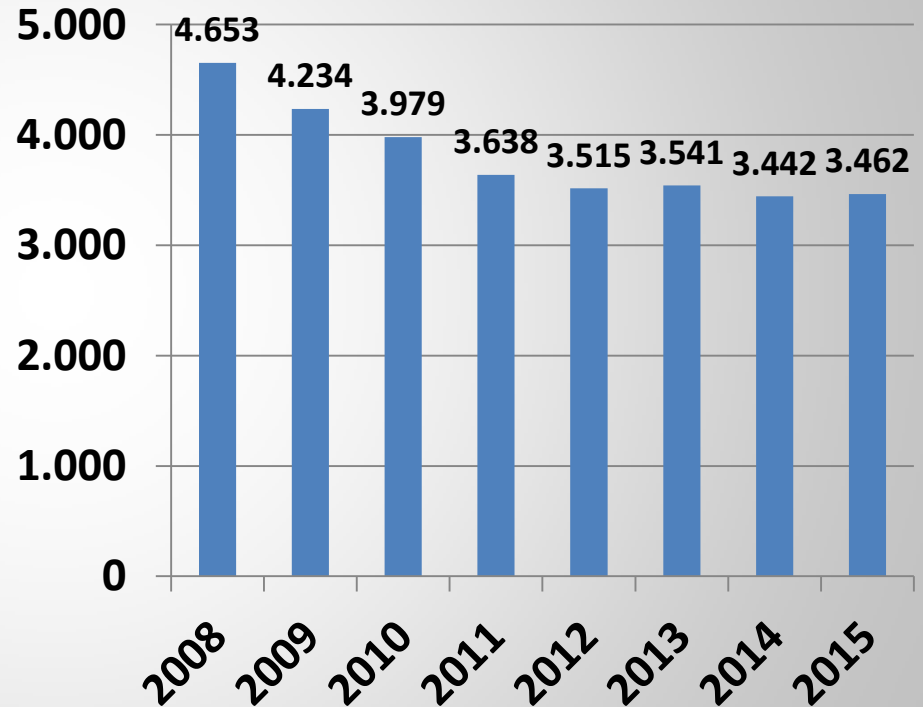
European mkt,
2016: €3.62bn

-4.8%, 2016p
(constant prices)

-3.5% p.a.,
2021f
(constant prices)

Source: *Smithers Pira*

EU 27 catalogue printing revenues,
2008-2015 (€ million)



Source: *Eurostat*

Advertising

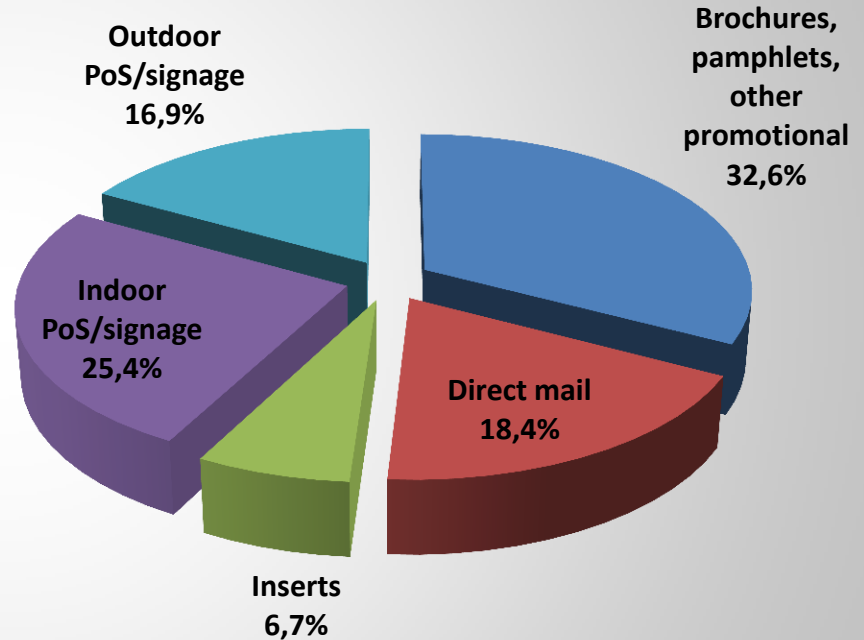
European mkt,
2016: €23.7bn

-2.2%, 2016p
(constant prices)

-1.5% p.a.,
2021f
(constant prices)

Source: *Smithers Pira*

European printed advertising output by type, 2016 (% share by value)



Source: *Smithers Pira*

Other commercial print

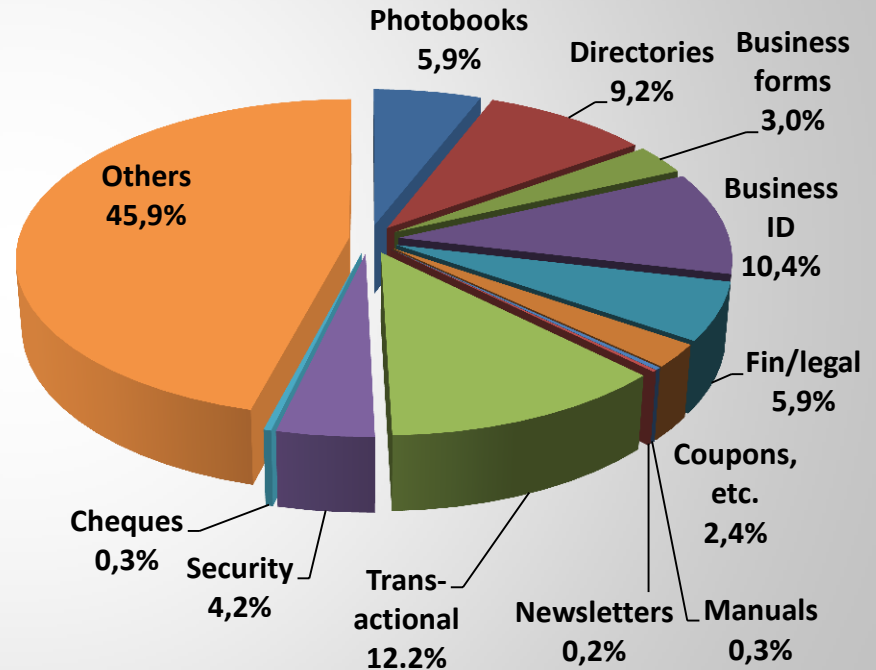
**European mkt,
2016: €28.6bn**

-1.5%, 2016p
(constant prices)

**-2.1% p.a.,
2021f**
(constant prices)

Source: Smithers Pira

Other European commercial printing output by type, 2016 (% share by value)



Source: Smithers Pira

Packaging & labels

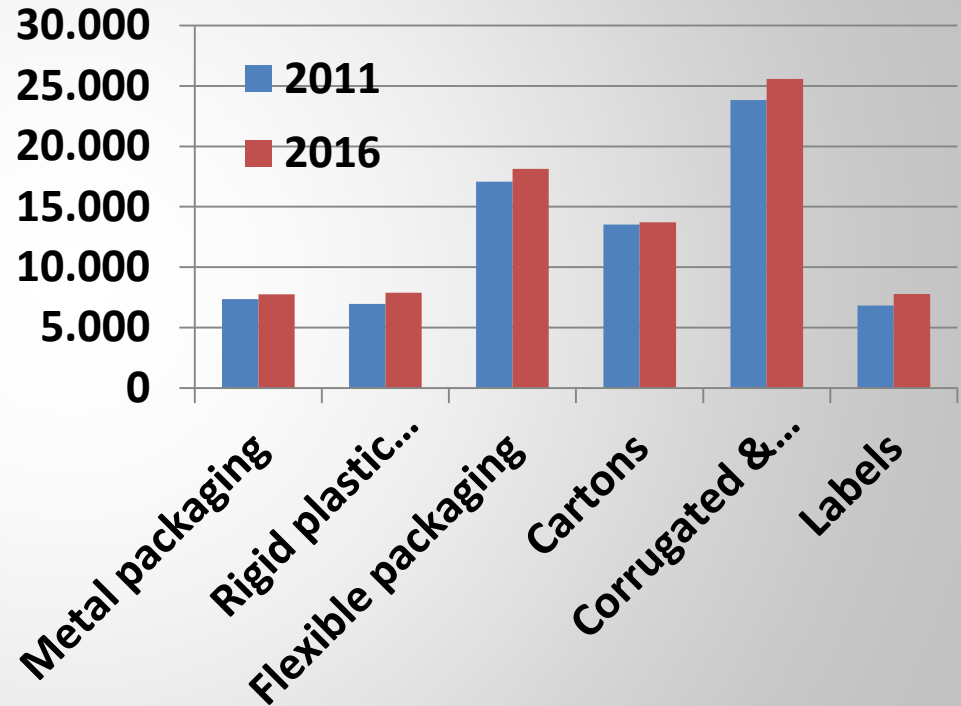
European mkt,
2016: €79.8bn

+3.0%, 2016p
(constant prices)

+2.3% p.a.,
2021f
(constant prices)

Source: Smithers Pira

European package & label printing revenues by type, 2011-2016 (€ million)

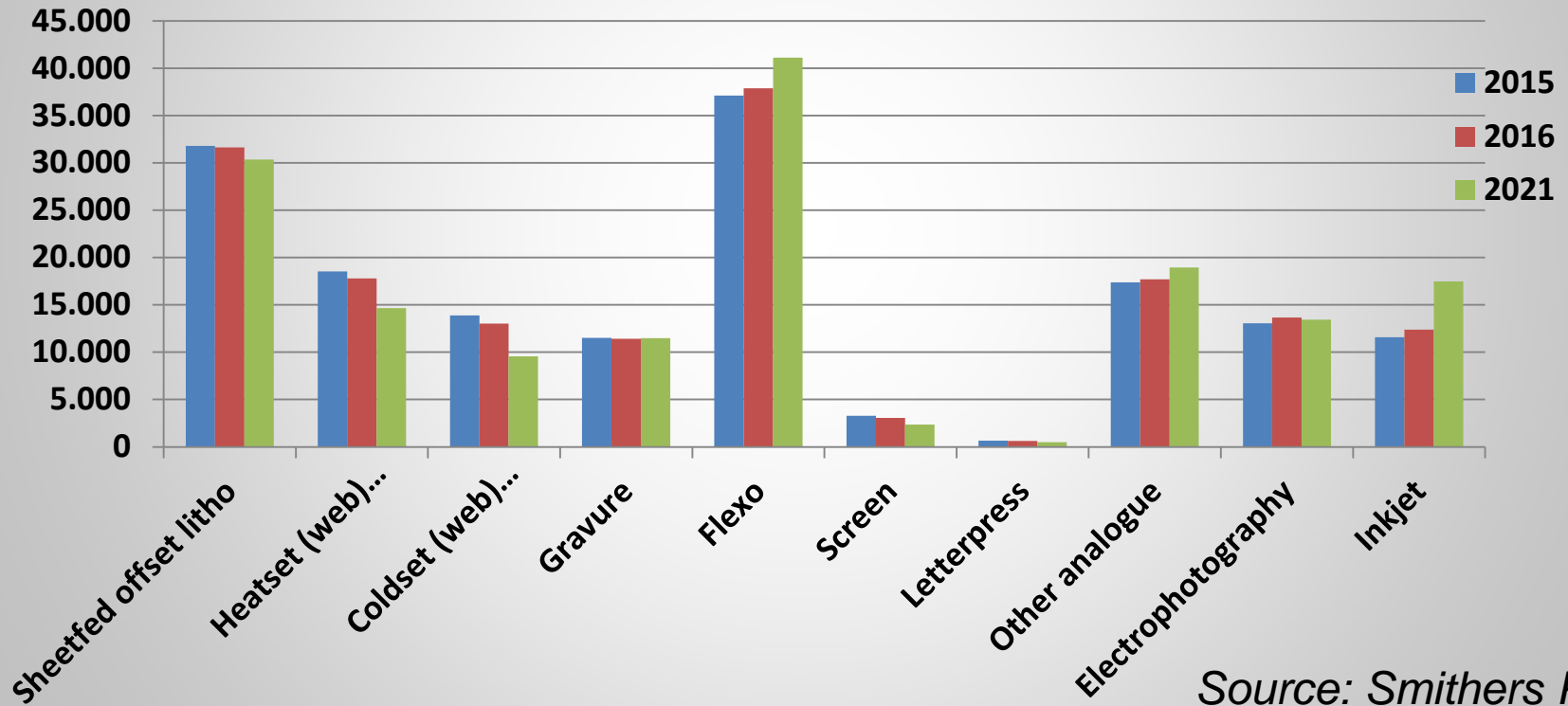


Source: Smithers Pira

Flexo single largest process; digital print gains ground

- Flexo printing output valued at €38bn, growing in line with package and label printing demand
- Sheetfed offset litho down only slightly to €32bn, but sharp falls in web offset printing output
- Overall digital printing output now standing at €26bn. Inkjet set to grow by 7%pa in real terms to 2021, with rising inkjet usage not only impacting upon analogue print but also leading to flat electrophotographic printing revenues

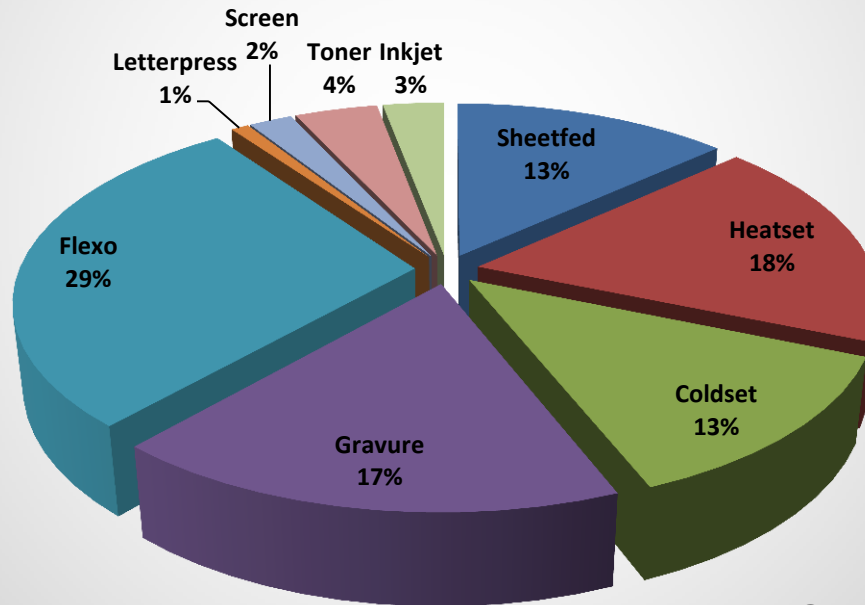
European Printing & Printed Packaging Output by Process, 2015-2021f (€ million, constant 2015 prices & exchange rates)



Source: Smithers Pira

European Printing Inks Consumption by Type, 2016 (% share by volume)

Total printing inks & colourants consumption: 858,000 tonnes



Source: Smithers Pira

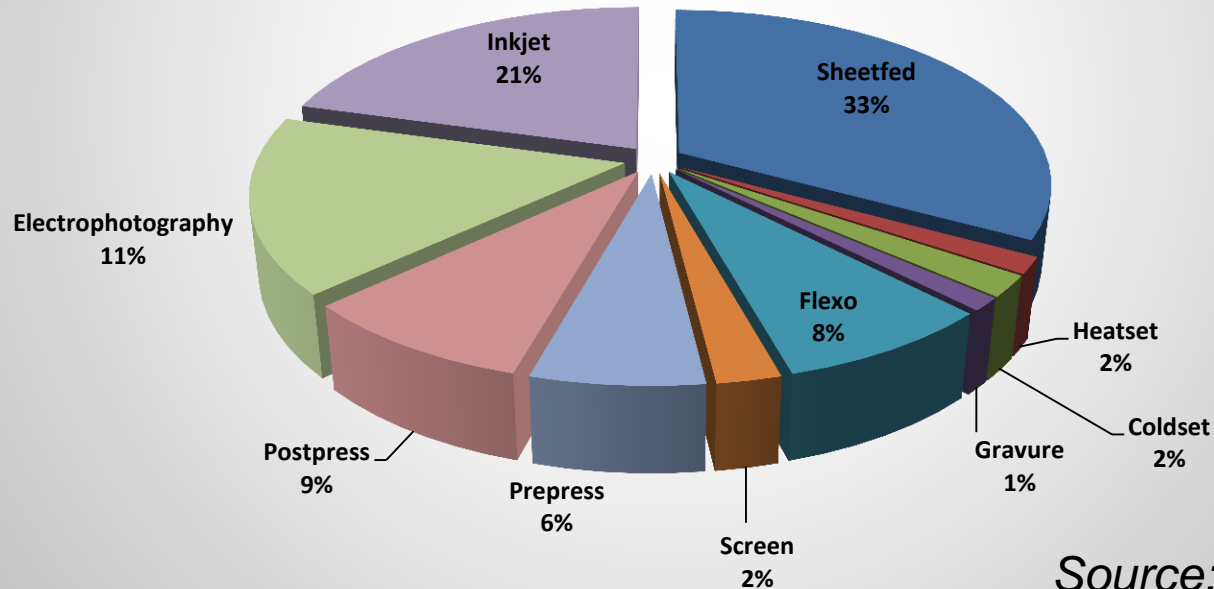
EU28 commercial printing press sales by type, 2008-2015 (sold production, € million)

	2008	2009	2011	2013	2014	2015	CAGR 2008/15	%C, 14-15
Reel fed offset	2,008	1,106	523	521	364	240	-26.2	-34.0
Other offset	2,515	1,157	1,800	1,291	1,500	1,000	-12.3	-33.3
Flexographic	127	99	82	88	60	42	-14.6	-30.0
Reel fed letterpress	443	365	548	535	575	660	5.9	14.8
Gravure	171	40	138	161	158	165	-0.5	4.0
Others	1,010	864	1,590	1,711	1,561	1,592	6.7	2.0
Total	6,274	3,631	4,681	4,307	4,219	3,699	-7.3	-12.3

Source: Eurostat

European Sales of Printing Equipment by Type, 2016 (% share by value)

Total sales of new printing equipment: €4.42 billion



Source: *Smithers Pira*

Outlook

Smithers Pira forecasts continued declines in European graphic printing output and growth in package/label printing, with overall growth of 2% in current € terms and flat in real terms

Landscape likely to remain challenging for many printers with further consolidation likely. Those companies most able to invest/grow, adapt or focus on key niche areas among those most likely to succeed

Investment growth in inkjet printing equipment will settle back to around 3% per annum, but inkjet printing will continue to gain share. Digital printing share to rise from 16% in value terms to 19% to 2021 with volume share rising from 2.7% to 3.8%

Technological, commercial and cultural change will continue to favour investment in digital printing equipment as well as systems like workflow software and web-to-print as printers seek to tailor their offer to their customers in the most effective manner

Thank you for your attention!

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