

INGEDE's Activities 2016

Dr. Thomas Krauthauf
International Association of the Deinking Industry
(INGEDE)

26th INGEDE Symposium

8 February 2017
Munich, Germany



Printing – Converting – Recycling Trends



“Critical Points in Sustainable Publishing by Print on Demand”

The Second Inkjet drupa: The Base is Widening
Large Inkjet Printers by Heidelberg and KBA, more UV cured prints

Printing Methods “Aqueous inkjet ink”

Opportunities for hybrids
The future of digital printing of newspapers is in decentralised distribution

NIP31 Conference in Portland:
Print Market Changing Rapidly

“Nanography” Mineral oil free inks

Separate Selective
Collection Sorting
Quality IMPACTPaperRec

“Liquid toner” **Printing Inks**

“LED cured UV”

Surprising Results Presented at NIP32 in Manchester:
Prints from KonicaMinolta's UV Inkjet Press KM-1 are Good Deinkable

“Commingled collection – no thanks!”

Stickies Brightness Filtrate
Recycling
decreasing virgin fibre content

Redispersible PUR Film thickness
Adhesives Application EVA
Softening temperature DisperStick

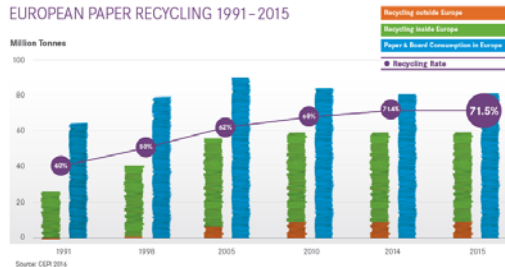
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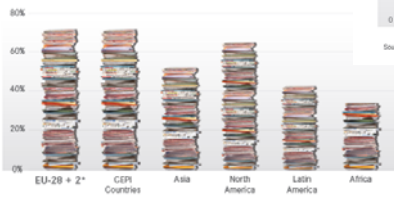
2015 European Recycling Rate 72 % - world record

Recyclability
Paper for Recycling
Demand Process

Packaging paper demand
39 mio to
+3,1 % (2015 vs 2014)
+1,2 mio to



EUROPE IS THE PAPER RECYCLING CHAMPION



Recycling rate in world regions in 2014
* EU-28 + 2: EU-28 + Norway and Switzerland
Source: CEPI, RIS - 2015 figures will be available in November 2016

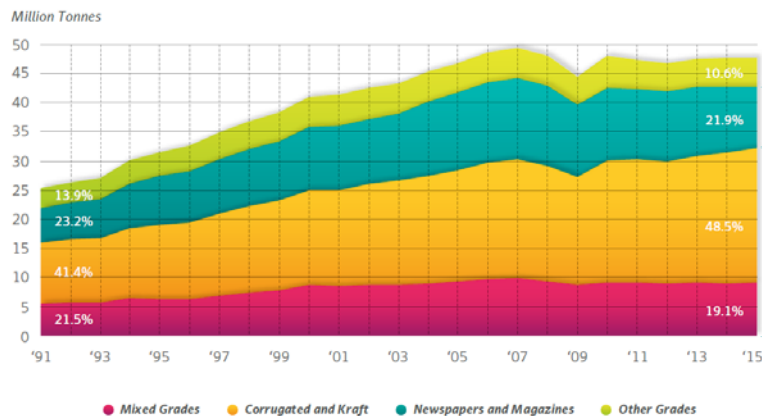
Graphic paper demand
27 mio to
-3,4 % (2015 vs 2014)
-1,0 mio to

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CEPI Collection of Paper for Recycling and Utilisation Rate by Grade 2015

Recyclability
Paper for Recycling
Demand Process



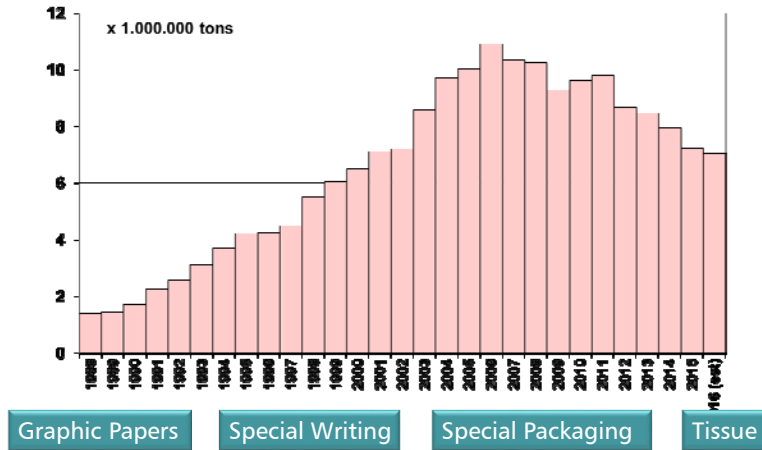
Graphic
9 mio to
28 %

Packaging
33 mio to
74 %

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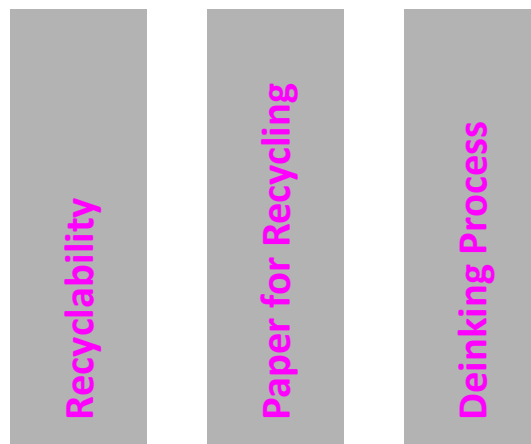
Utilisation of Paper for Recycling by INGEDE Members 1988–2016



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INGEDE's Thematic Pillars



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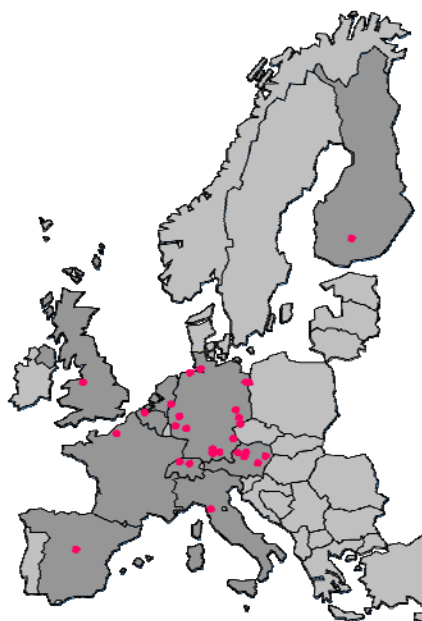


Who is INGEDE?

INGEDE is the organisation of the deinking mills.

INGEDE was founded in 1989 by 12 companies.

Currently **28 paper** mills are members of INGEDE, who utilised about **7,0 million tons** of paper for recycling in 2016.



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28 INGEDE Members

Holmen Paper Madrid Mill

Kübler & Niethammer

LEIPA Georg Leinfelder
Schwedt Süd

Lenzing Papier

Lucart
Porcari (Lucca)

Norske Skog
Bruck

Perlen Papier

Laakirchen Papier

SCA Hygiene
Mainz-Kostheim
Ortmann

Schönfelder Papierfabrik

Steinbeis Papier

Stora Enso Group

Eilenburg
Langerbrugge

UPM Group

Augsburg
Chapelle Darblay
Ettringen
Hürth
Kaipola
Plattling
Schongau
Schwedt (now: Leipa Schwedt Nord)
Shotton
Steyrermühl

Utzenstorf Papier

Van Houtum

Papier- und Kartonfabrik Varel

Weig Karton

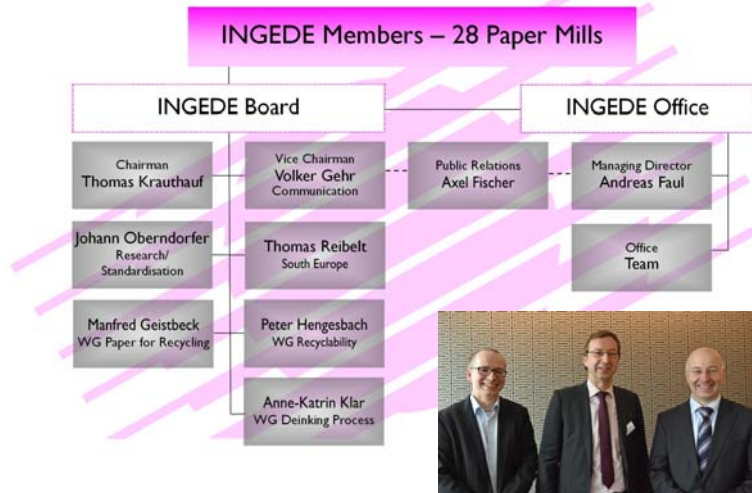


Holmen Paper Madrid terminated the membership, effective on 31 Dec 2017, due to the divestment of the mill.

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INGEDE Structure



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INGEDE Office

- INGEDE Office is operated by PROPAKMA GmbH
- The Office team (main tasks):
 - Andreas Faul (Managing Director)
 - Elke Berger (Communication)
 - Jens Winter (Budget/Projects)
 - Christian Trieb (Projects/Support)



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What does INGEDE stand for?

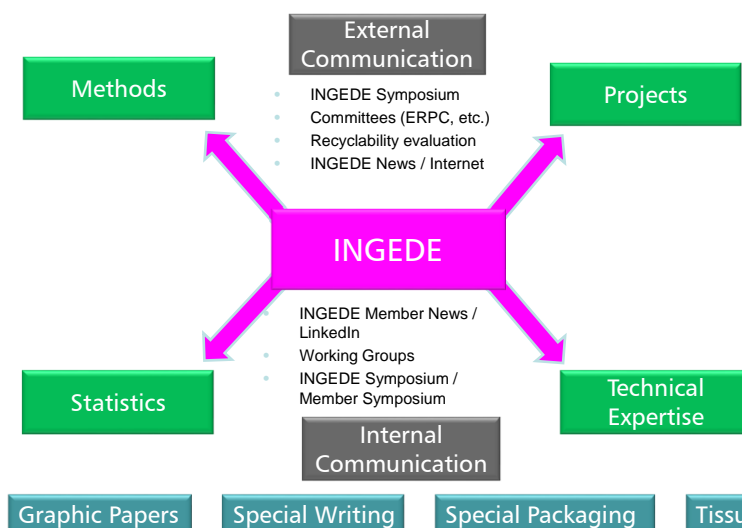


- Fact-based and objective technical statements and results
 - INGEDE Methods, Standards (EN, ISO) –
new: “DIN SPEC 55700”
 - Guideline documents: “Deinking Scorecard” for recyclability assessment
 - ✓ Development based on own and third-party funded projects
- Long term experience and data
 - Recyclability database
 - Quality statistics of paper for recycling
- Technical and technological exchange of experience among member companies

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INGEDE – at a glance



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News from European Recovered Paper Council (ERPC) – 2016



- Update of **European Declaration on Paper Recycling** in progress
- Revision of **Deinking Scorecard** by addition of an annex
- Monitoring report: **Paper Recycling Chain exceeds its voluntary commitment**
- Meetings in Brussels, telephone conference



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WG – Recyclability of Printed Products



- Achievements
 - Prevention of the spread of flexographic newsprint
 - Deinkability is a part in the development of new (digital) printing systems
 - INGEDE Methods are common standards and base for industrial standardisation (DIN spec)
 - Scorecards are part of assessment process for Ecolabels
- Current topics
 - Higher diversity of printing technologies
 - New converting technologies and materials
 - Higher content of non-fibre components in paper products
- Objectives and tasks
 - Prevention of “downcycling”
 - Implementation recyclability standards in ISO standardisation



DIN

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WG – Paper for Recycling



- Achievements
 - EN 643 – limitation of moisture and non-paper components
 - Development and implementation of objective methods for entry inspection
- Current topics
 - Declining share of graphic products in paper for recycling
 - Decreasing quality of PFR
 - Sorting plant operation (cost and yield)
 - European standardization of entry inspection methods
- Objectives and tasks
 - Stimulation of selective graphic collection (IMPACTPapeRec)
 - Evaluation and optimisation of sorting plants

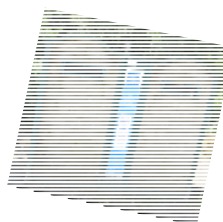
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Project IMPACTPapeRec



- Objective: **Improving and increasing collection of paper for recycling**
- INGEDE is involved
 - As supporter of the European Innovation Partnership “IMPACT”
 - Indirectly by PROPAKMA (Andreas Faul) as project partner
 - In the External Support Committee by representatives of
 - Austria Papier Recycling
 - MAD (Leipa)
 - Stora Enso
 - UPM



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WG – Deinking Process



- Achievements
 - Internal benchmark on process efficiency (INGEDE Projects, monthly statistics)
 - Platforms for technological exchange established
 - Research results in selected topics, e. g. new technologies
- Current topics
 - Increasing load of non-paper components
 - Increasing ash
 - Decreasing brightness potential
- Objectives and tasks
 - Solutions for stickies
 - Detect reasons for hickeys



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INGEDE Working Groups – Activities 2016



- Working Group Recyclability
(Peter Hengesbach)
Several small meetings and telephone conferences
Subjects related to drupa, INGEDE Methods and standardisation
- Working Group Deinking Process
(Anne-Katrin Klar)
26/27 April at Utzenstorf, Switzerland
9/10 November at Schwedt, Germany
- Working Group Paper for Recycling
(Manfred Geistbeck)
27/28 April at Utzenstorf, Switzerland
8/9 November at Schwedt, Germany



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Further External Activities (1)



- **Technical Committee Deinking**
(paper value chain in Germany) – one meeting
- **Zellcheming technical committees** 
- **Specialty Papers Europe** conference – “Paper recycling – how can producers of specialty paper products contribute?” – focus on inkjet and liquid toner deinkability (Andreas Faul) 
- **Drupa** – “News at drupa – what is the good news from a deinker’s view” (Axel Fischer)
- **NIP32** International Conference on Digital Printing Technologies – “Deinking Print Samples from Drupa – Surprising Results” (Axel Fischer) 

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Further External Activities (2)



- **bvdm Treffpunkt Technik** –
panel discussion about UV printing (Andreas Faul) 
- **VNOP Altpapierausschuss** – “Grafisches Altpapier: Qualität, Normung, Versorgung” (Andreas Faul) 
- **European Paper Week** (Thomas Krauthauf)
- Attendance at **further conferences**
 - PTS Deinking Symposium
 - Zellcheming Expo 2016
 - Dialogmarketing-Messe CO-REACH
 - Anwenderforum UV-Druck
- **Public Relations**

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Welcome to 26th INGEDE Symposium 2017



09:30	Registration and Coffee
10:00	Welcome and Introduction, INGEDE's Activities 2016/2017 Thomas Krauthauf
10:30	Keynote: Roadmap 2050 N. N., CEPF
11:00	The IMPACTPaperRec Project: European Multi-Stakeholder Cooperation to Improve Paper Recycling Rates Lisa Labriga
11:30	Processing High Grade Paper for Recycling Anne-Katrin Klar
12:00	Lunch
13:15	Recyclability – Databases, Scorecards, Standards Andreas Faul
13:30	Environmental Impact and Sustainable Aspects of Digital Printing at CEWE Matthias Hausmann
14:00	DIN SPEC 55700 – Deinkability Test for Printed Paper Products Peter Hengesbach
14:30	Deinkability Update: Drupa, Digital Prints, UV Cured Prints Axel Fischer
15:00	Coffee
15:30	Sorting Plant Design Manfred Geistbeck
15:45	Sorting Plant Design (Stora Enso Langerbrugge) Manuela Suttnig, REDWAVE
16:15	Sorting Plant Operation Manfred Geistbeck
16:30	INGEDE Projects Johann Oberndorfer
16:50	INGEDE's New Website Axel Fischer
17:00	Wrap-up and Closure Thomas Krauthauf
17:15 h	End of Symposium

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Impressions from the 25th INGEDE Symposium in Munich
(24 February 2016)



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