

Capital Markets Day 2023 09 October 2023 Radebeul, Germany

we're on it.

Agenda 09 October

Day 1 – Monday	
Arrival & Registration	
Welcome Ralf Sammeck	
Intro CMD 2023: Growth areas Dr. Stephen Kimmich	
Live Demo: 360° packaging workflow Ralf Sammeck	
Dinner	
	Arrival & Registration Welcome Ralf Sammeck Intro CMD 2023: Growth areas Dr. Stephen Kimmich Live Demo: 360° packaging workflow Ralf Sammeck



Ralf Sammeck

Member of the Board CEO Koenig & Bauer Sheetfed Chief Digital Officer

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Welcome to our Capital Markets Day 23

in Radebeul



Dr Stephen Kimmich Member of the Board CFO Koenig & Bauer AG

Our communicated goals







1,8 Mrd. € turnover 8-9% EBIT We have six main areas of growth on the way to our mid-term goals.

Corrugated





CMD 2023

Postpress



Cloud based production workflow







Digital Printing



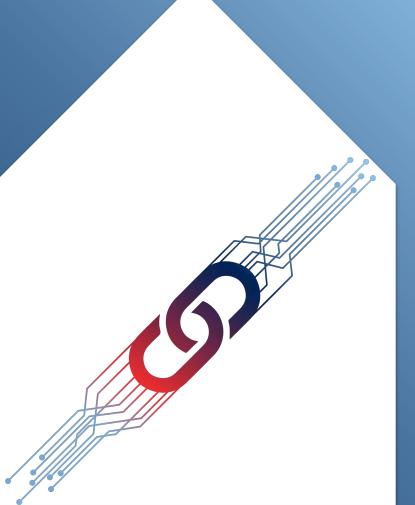
CMD 2023

Flexible Printing



1 CMD 2023

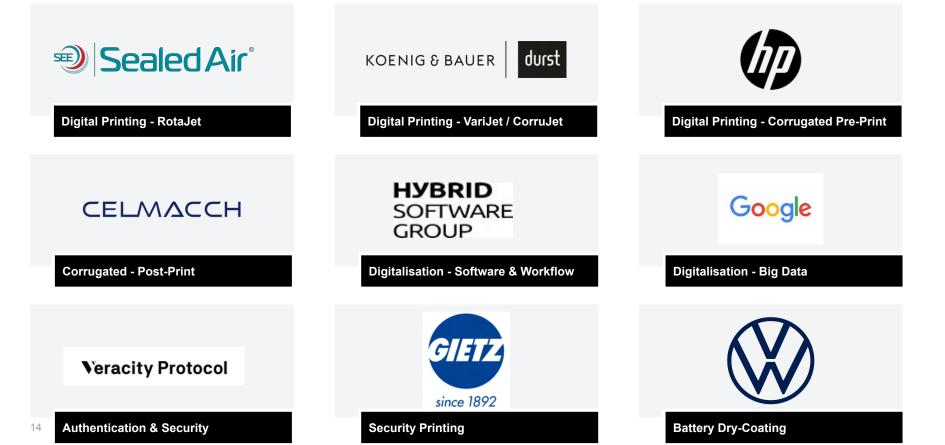
Digital Business Models



Consumables



Successful partnerships



Agenda 10 October

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	Farewell Lena Landenberger
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Ralf Sammeck

CEO Koenig & Bauer Sheetfed Chief Digital Officer

Partnership with HYBRID Software

Exclusive and innovative solution for packaging workflow

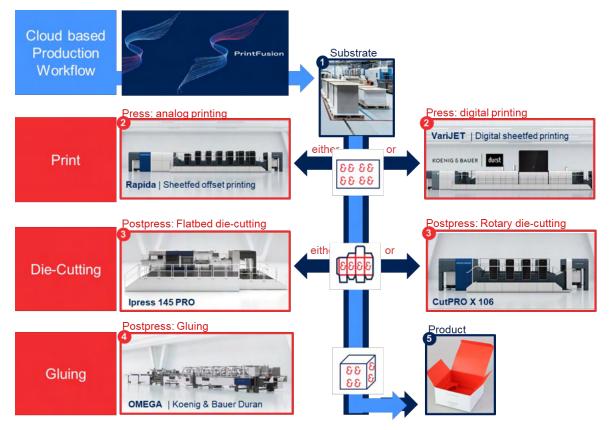
Main benefits:

- Cloud-based production workflow
- Integration of Rapida presses into your individual business processes
- Increased efficiency in prepress and press
- Short makeready times at the press

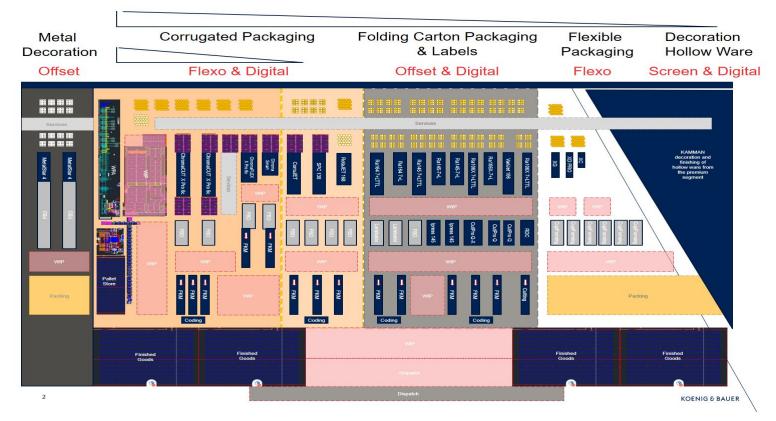


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360° packaging workflow



Giga-Factory





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Dr Andreas Pleßke

Speaker of the Board CEO Koenig & Bauer AG

FUTURE DAY IS DESTINATION decided NOW

5 12 00

NUM

DIST

Exceeding Print

Corporate strategy based on the most important megatrends

sustainable

.....

- Regulation and end-customer choices drive sustainability in packaging
- Substrate Ink Energy

- Sustainable printing processes
- Even more efficient machines
- Non-ecological packaging can be replaced, waste can be reduced and resource-saving processes can be pushed forward
- Roadmap for complete CO₂ neutrality in own production plants from 2030 onwards

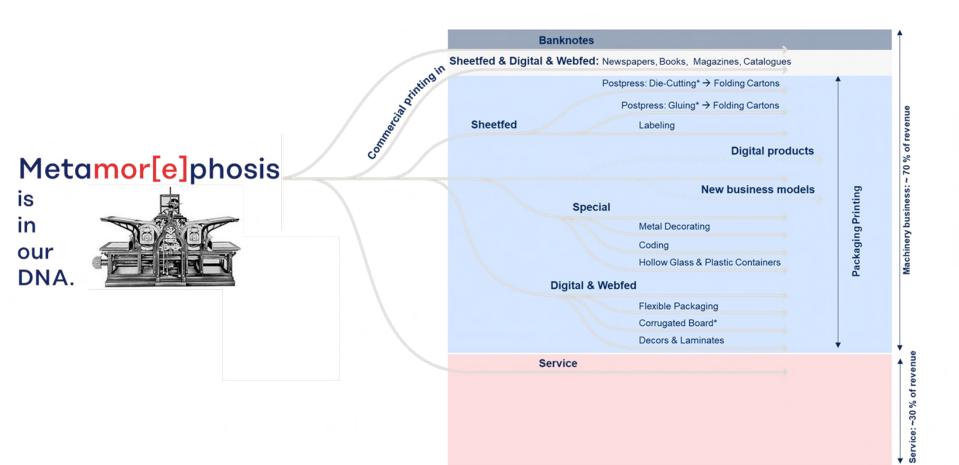
digital

- Digital transformation of the printing industry: networking machines, capturing and analysing data and controlling processes efficiently
- Transparent, data-driven processes are the starting point for greater efficiency and profitability
- High degree of automation
 - → Efficiency
 - → Operational simplification
- Total cost of Process vs Capex

modular • Main driver for decreasing production cost & improving time to market • Modular and standardised systems in hard- and software • Flexibility and efficiency benefits as well as cost-saving potentials • Complete production systems vs. standalone machines

Metamore[e]phosis is in our DNA.

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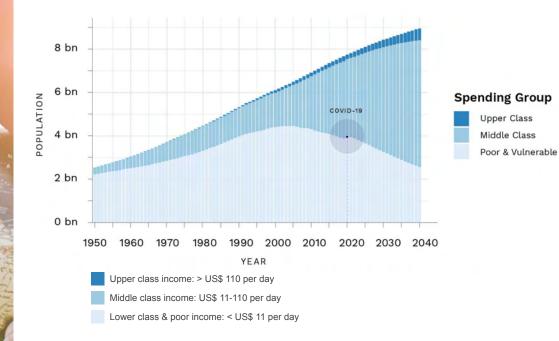


The advantage of know-how in all industrial printing processes onto any substrates: What will orange juice packaging look like in the future?



The driver of decorated packaging: middle class population growth

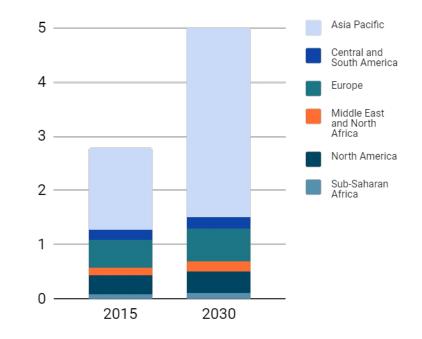




The amount of people with an income >20.000\$

- will primarily consume packaged food, beverages and other goods
- and will steadily grow

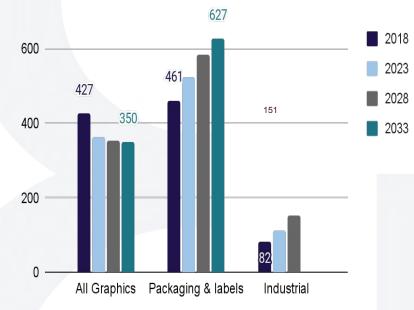
Size of the global middle class in 2015 to 2030 in billions of people



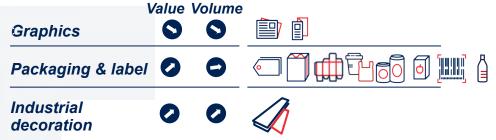
Source: Brookings Institution 2021

Packaging and industrial decoration will grow, graphical printing will decline

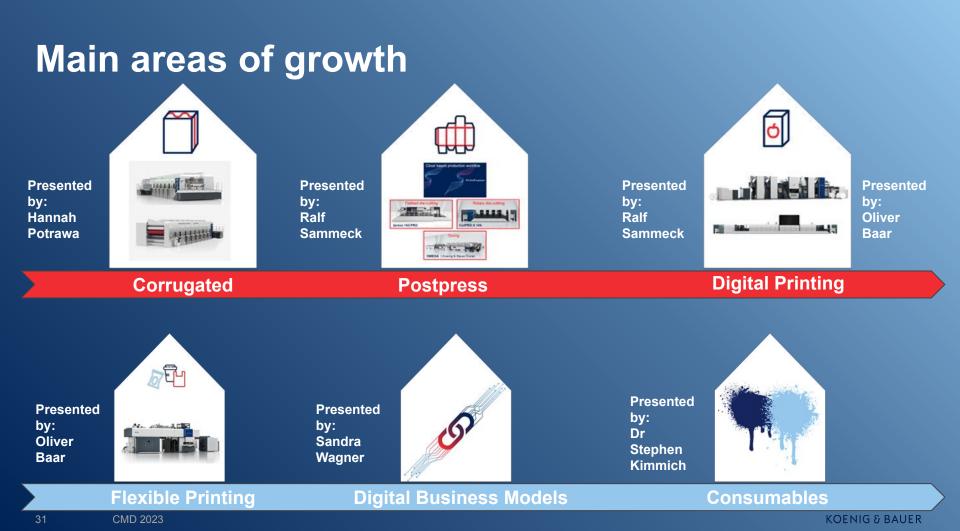
Global printing, printed packaging and industrial decoration 2018-2033 (in US\$ billion, constant 2020 value and exchange rates)



- Graphical printing (newspapers, magazines, catalogues, commercial printing etc.) declining in value and volume in most parts of the world
- Printed packaging for e.g. folding carton, corrugated, flexible packaging and others will increase in value and and volume in most parts of the world



Source: Smithers 2023



Challenges

Economic downturn

Inflation

EU Regulations

Energy costs

Skilled Worker shortage

Geo-Political constraints



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We may not have a crystal ball - but ...

Exceeding Print

Taking off with Digital/Software business models

Modular Systems in Hard- and Software

Supply Chain Processes

Internationalization

Vocational School and new fields of education



... Successful partnerships

Sealed Air[®]

Presented by: Dr Stephen Kimmich

KOENIG & BAUER



Presented by: Ralf Sammeck



Presented by: Dr Stephen Kimmich



Presented by: Hannah Potrawa

HYBRID SOFTWARE GROUP

Presented by: Ralf Sammeck





Google

Presented by: Sandra Wagner



Partnership with Veracity Protocol

- Digital technologies for authentication and connection of printed products
- Next step toward digital innovations in the high-security sector
- Development of solutions for authentication of printed products
- Authentication without changing the surface composition



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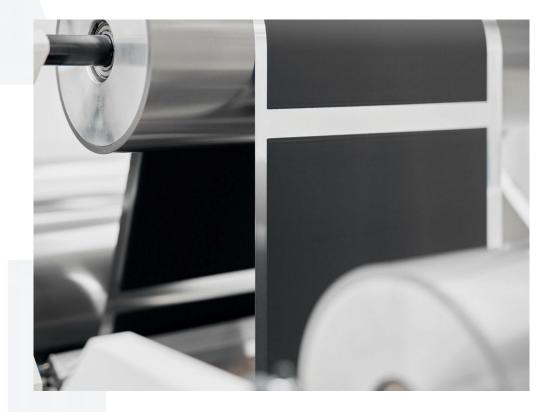
Partnership with GIETZ

- Joint improvement and development of OVD (Optically Variable Devices) application platforms for banknote printers
- The technologies developed under the new partnership will be marketed by Koenig & Bauer Banknote Solutions worldwide (with the exception of Japan)



Partnership with VW

- Pressure in the truest sense of the word
- ~ 60-100 ton per meter pressure with Intaglio machine (Banknote)



Facts & Figures

- World's largest trade show for the print media industry
- Trade show has been held in Düsseldorf every 4 to 5 years since 1951
- Last physical drupa in 2016 with 260.000 visitors from 188 nations and 157.911 m² exhibition space with Claus-Bolza-Schünemann as drupa president
- Current booking status:
 - Exhibitors from 46 nations
 - 133.243 m² booked area

May 28 -June 7, 2024 Düsseldorf/Germany drupa we create the future

See You our drupa Capital Markets Day 24

29 May 2024

... and where JUN 16 2045 12 Will we be in DIST 2045?

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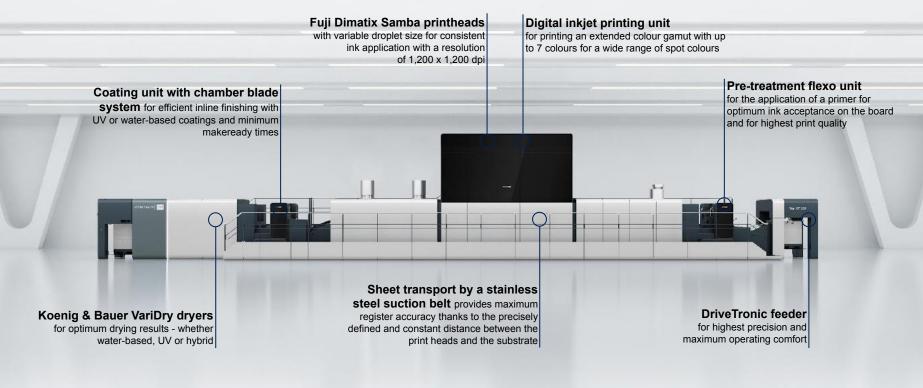


Ralf Sammeck

Member of the Board CEO Koenig & Bauer Sheetfed Chief Digital Officer

VariJET 106 | Technology

Digital printing system with water-based inkjet technology



... Let's see the VariJET LIVE now...

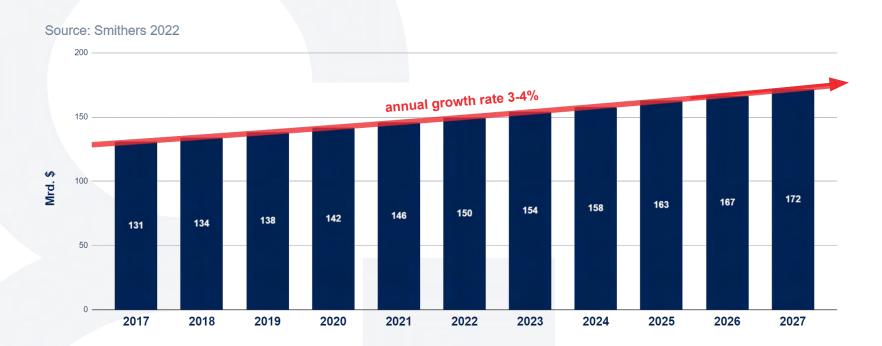
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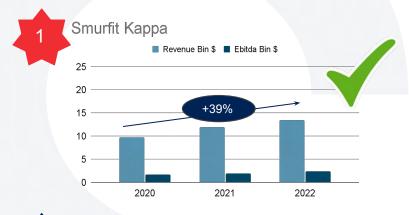
Hannah Potrawa
Director Corrugated

Corrugated Board Packaging Market value development



Worldwide experts expect an increase of appr. 18% between 2021 and 2027

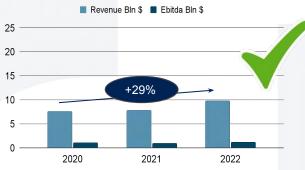
... whose development in recent years show the growth

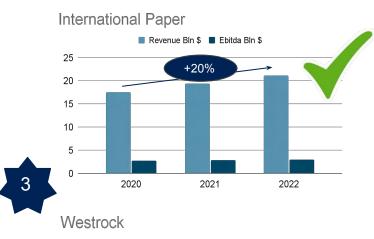


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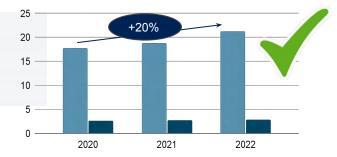
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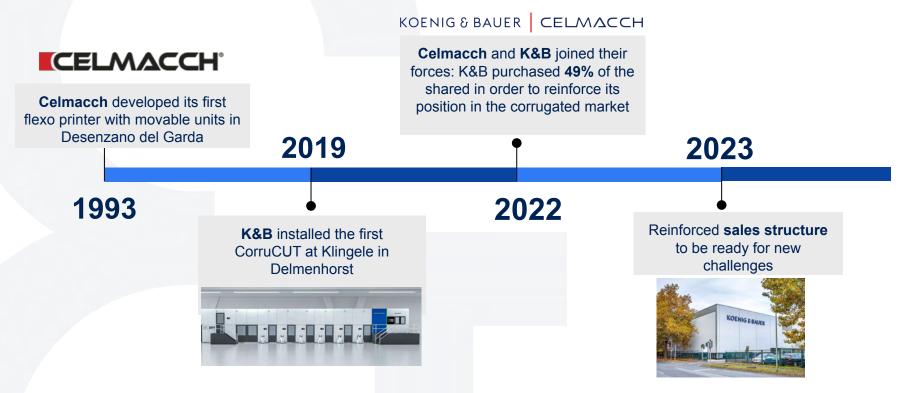


Revenue Bln \$ Ebitda Bln \$



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Koenig & Bauer in the Corrugated Market Timeline



We combine the best of two worlds

KOENIG & BAUER

200 years of experience in the printing industry International Sales and Service



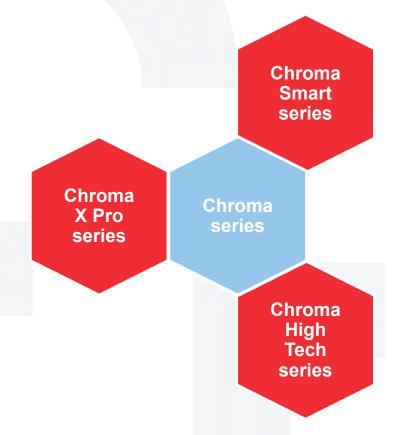
40 years of experience in the corrugated board industryEstablished name in Europe

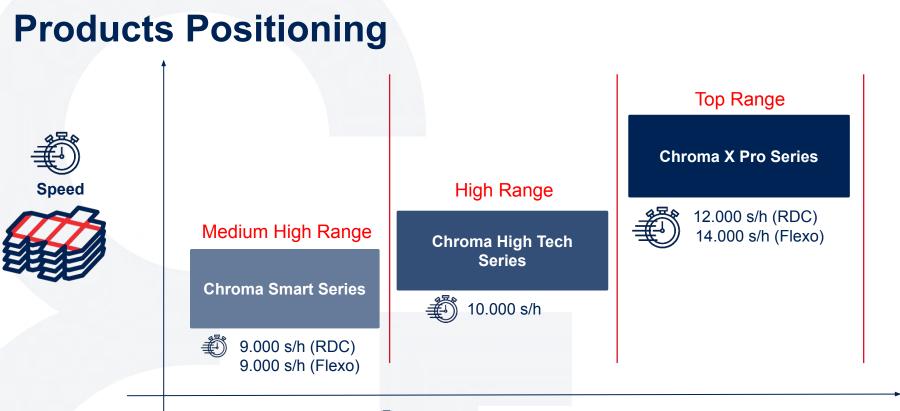
KOENIG & BAUER CELMACCH

KOENIG & BAUER CELMACCH

Our products

Koenig & Bauer Celmacch's Product Range







There are many trends with impact on the corrugated market

Four main requirements on corrugated packaging

		FRAGILE	WE CO RECYCLE
Economic Focus	Reduce Waste	Security	Recyclable
Corrugated is a cost effective packaging solution able to ensure that the product is safe.	Corrugated packaging is easily customizable to eliminate material waste.	Corrugated is creating by using different fluting to keep content safe and secure.	Best recycling rate, fibers can be recycled up to 5/7 times. Nearly 81% is recycled.

CMD 2023

8.000.000 €

Stepping on two trends of the moment: automation and set-up times reduction



Up to 8.000.000 € per anno

E-commerce is moving the whole corrugated industry

E-commerce sales keeps growing

Worldwide sales 2021 5.000 bn. \$

Thereof 80% corrugated



Worldwide sales 2022 5.632 bn. \$

Thereof 82% corrugated

Continuous growth at a lower level than than originally expected

Source: Smithers 2022

One of the trends driving e-commerce is two side printing



The new Chroma 2S Technology is our answer for two side printing





Bottom Printing unit

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DOĜAL



Oliver Baar

Director Product Management - Commercial

AGENDA

1. Packaging trends in application

- 2. RotaJET: applications and layouts
- 3. CI Flexo

Packaging trends in application: liquid packaging

Without PRINT: Boring; undefined package (BBB)







3

Individual PRINT: Seasonal packaging

Campagne - Online!

Packaging trends in application:

Regionalisation, rules & diversity in the cigarette market

UP TILL NOW... 1NEW PRODUCT LAUNCH 2 SKUs & 6 GTPs 4 months to 1st market introduction 2 years to global deployment ...OUR NEW REALITY 1NEW PRODUCT LAUNCH More than 100 SKUs & GTPs Simultaneous worldwide **GLOBAL LAUNCHES**







3 Smart connected packaging



Packaging trends in application:

4 Smaller batches / shorter runs



5 Versioning and customizing





Trends & potentials in digital printing

RotaJET as partner and enabler in digital printing



PRINTER Efficiency and Sustainability

- no printing plate or plate making process, water, cliches...
- no isopropanol (no dedicated insurance, no negative effects on health)
- lower storage cost (production just-in-time + shipping = NO print & pray)
- lower staff assignment

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BRAND OWNER

Brand loyalty / differentiation

- higher customer loyalty e.g.
 customized product features
 (distinguishing features)
- track and measure customer activity thanks smart / connected product features (Smart Packaging)
- faster reaction to trends



INDUSTRIAL TRENDS

Flexibility, promptness and traceability

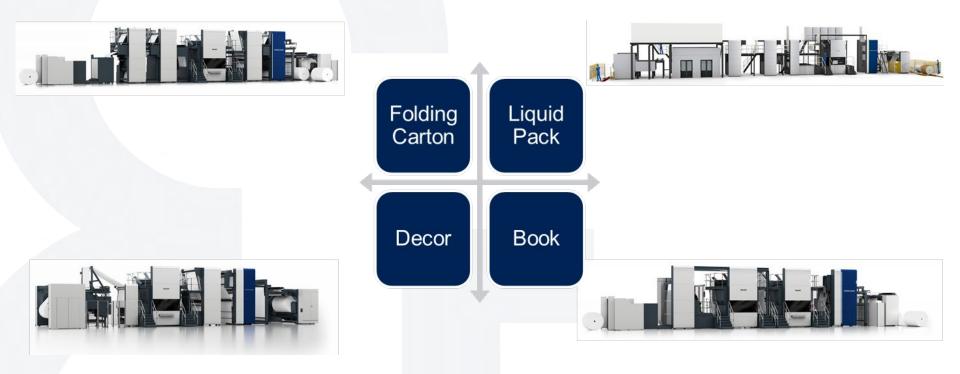
- regionalisation
- rules & regulation (shocking pictures)
- time-2-market
- smaller batches
- diversity
- customization
- Track & Trace (barcodes, QR,...)
- Shortening the supply chain Brand becomes digital printer
- connected packaging

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AGENDA

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Trends & potentials in digital printing The answer - RotaJET

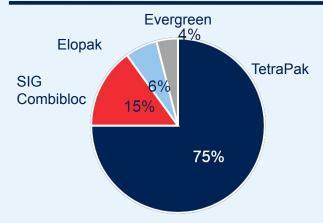




RotaJET variants Liquid packaging

Market shares Beverage cartons

(Extract without Asia and Latam)



- approx. >250 billion packagings p.a.
- multi-layer packagings (carton, plastic, w. aluminium)
- different productions / techniques
- TetraPak with 52 sites (193 mio packs, 2022)
- K&B with projects with the largest suppliers Tetra Pak, SIG Combibloc, Evergreen, Elopak and Lami Pak (largest Chinese supplier)

Quelle: L, N & P / D&W (2020) / TetraPak

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Liquid Packaging Part of the Tetra Pak product line





2% of the product variety of Tetra Pak

AGENDA

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Koenig & Bauer - CI-Flexo Product Range

Segments and applications



KOENIG & BAUER

Koenig & Bauer DIGITAL Transform today to exceed tomorrow.

#ReadyForTomorrow

we're on it.

Transform today to exceed tomorrow.

#ready for tomorrow



Sandra Wagner

VP Digitalisation Koenig & Bauer, Digital Unit

How are we defining our digital strategy?

It's about using digital technologies to change the business model and provide new revenues and business areas.

Koenig & Bauer DIGITAL

Solutions within our universe

Sustainability Goals

VisuEnergy X

is the energy management system (EnMS) for the printing and packaging industry.

 \rightarrow Focus on CO² reduction and energy savings

Data-Driven Decisions

Kyana Connect & Analytics

is the real-time data cloud-based solution for the printing and packaging industry.

 \rightarrow Focus on Production Performance & Efficiency

Community & Service

myKyana

is the eco-system for the printing and packaging industry.

 \rightarrow Focus on customer needs, support and digital solutions

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VisuEnergy X Energy management system

- Energy-efficient production to reduce unit costs and achieve higher margins
- Smooth out peak loads to reduce power prices from your electricity supplier
- Report your company's carbon footprint to comply with legal requirements and strengthen your brand image
- Indicate CO² footprint per order to increase competitiveness and attract new customer groups
- Achieve climate neutrality to to sustainably protect the environment

#readyfortomorrow



Kyana Analytics Production data analysis tool

Extensive analysis of your production

- BI-applications enable insights into optimisation potential in the production process
- Comprehensive dashboards of machine operating and order data
- **Comparisons of machines** between each other and across sites
- More certainty in decision making through data-based insights
- Intuitive und individuelle design of user interfaces

#readyfortomorrow



myKyana Customer portal

Insights, digital solutions and support

• Customer Contact Point center of an expanding digital ecosystem

• E-Commerce

serves as an additional sales channel for digital products and offerings/services as well as parts

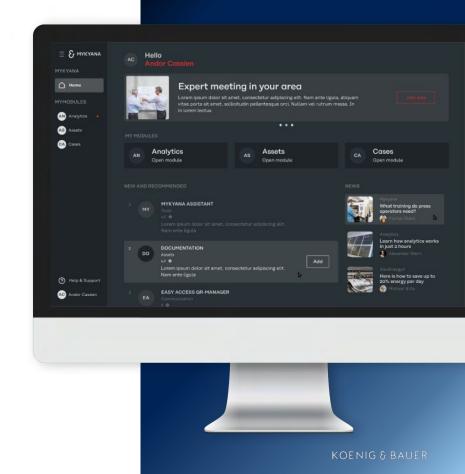
• Partner-Community

One-stop-shop for complementary products (2024)

• Trusted Advisor

supports core business and strategic partnerships

#readyfortomorrow



Coming soon

Pipeline of the digital universe

- LLM-based 1st Level Support Prototype is ready and customer testing started
- **Loyalty & "Credit" Program** in evaluation, especially for partner community
- **Digital Twin for customers** in preparation, strong link to our Modularity Strategy
- More features for Analytics and VisuEnergy
- **Al-based intelligence** in Analytics for better prediction and support

			What does this sensor need to be set
			What does this sensor rised to be set
0			
			Describe how the print image should be copie
	The approximate minimum distances of the print image to the screen frame edge are Note Preferably center the print image. Dimension A B Distance to screen frame min.	r given below. The minimum distances depend on the screen gauze used and the set screen , 25 mm min 30 mm	
-		на	w is the printing ink brought to the printing scre
8			What are the possible causes of a DATA er
	The following events lead to data errors: - Articla missing (a.g. fallen down). The light	barrier has detected the missing article Article present, but a light barrier does not reco	
0			
			rectangles in dark purple in the DATA image me
8			
Whe	at dangers can occur when changing screens?		
			Town House A

#readyfortomorrow

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KOENIG & BAUER

Business model

SaaS-based solutions

SaaS is key to build up constant revenue streams

- All digital products are only SaaS based
- Available via e-commerce in our myKyana eco-system and via classic contact points
- Subscription is managed automatically inside our systems
- Customers like the flexibility of SaaS-based pricing

Project "follow" Potential for the future linked to our core business

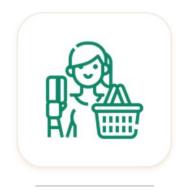


Simplify packaging - Amplify engagement

follow

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Consumer connect, emerging EU regulations and sustainability demands are creating a challenging environment.







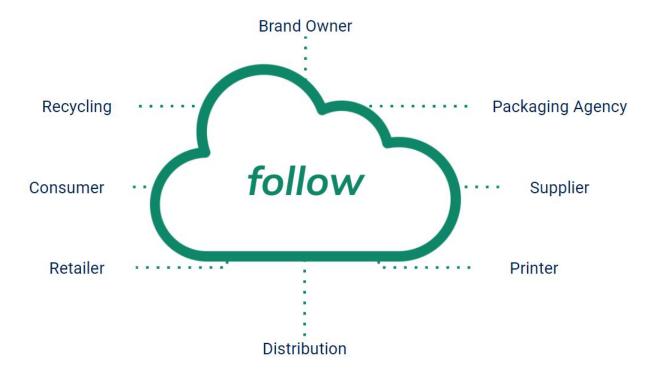


Brand owners want to have more insights and provide a unique shopping experience to their consumers. Packaging design should inspire consumers while both being **sustainable** and act as brand ambassador. **EU Green Deal** requires full, digital traceability of individual products till 2027 (DPP), requiring professional tag management GS1 is driving **barcode replacement** through 2d-Matrix Codes (QR) by 2027 latest (Project Sunrise)

Product and Business Model

Real-Time Interaction with "follow"

Cloud-based platform



For Brand Owners & Printers

Set-up Digital Twins, assign dynamic QR codes and integrate lasting consumer interaction through AR technology easily into your existing processes

Personalize each product interaction and enlarge your packaging space

- Boost consumer trust and comply with latest regulatory demands
- Gain valuable consumer insights

For Consumers

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Enrich each and every shopping journey through your **personal, smart shopping assistant** effortlessly scanning your surrounding and product selection wherever you are

Highlight nutrition details catering to your personal health requirements

- Unlock full product transparency and trust for sustainability ratings
- Never miss a buck for the bang

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Summary Printing and it's extension with digital technology is the future

The THREE most important key messages of our presentation

Physical packages and digital solutions will merge and become a unique and personal brand experience. Mainly driven because of e-commerce, digital printing technology and fast improving digitalisation technology.

These new business will generate new markets and clients, even a complete new economy (Metaverse) could be possible.

We have a strong background and unique skills in printing technology and know the packaging market. Further, we are building up our digitalisation knowledge. The combination of print and digital technology will be a game changer.

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Koenig & Bauer AG Friedrich-Koenig-Straße 4 97080 Würzburg

Follow our transformation journeyImKoenig & Bauer DIGITAL

digitalisation.koenig-bauer.com

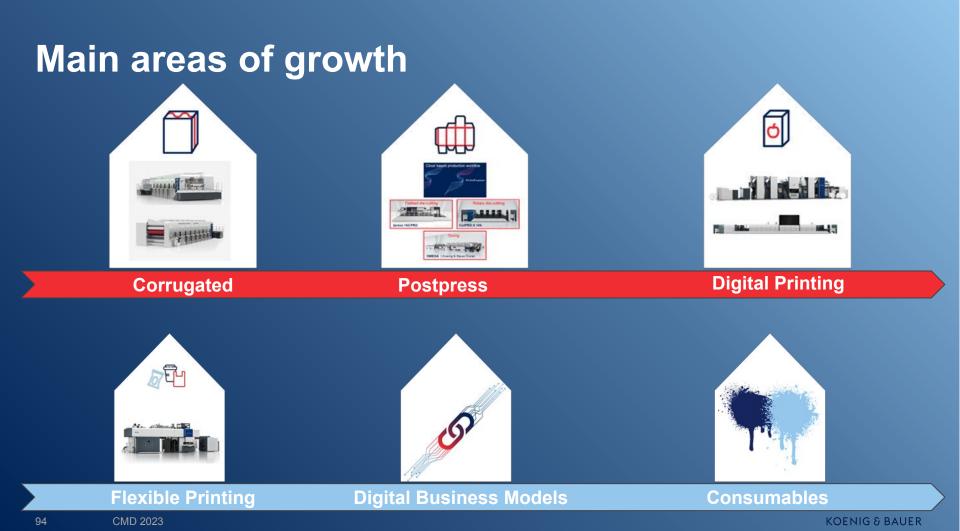
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Dr Andreas Pleßke | CEO Dr Stephen Kimmich | CFO

Ralf Sammeck | CDO





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