

## **Small Meeting for Production Print and Industrial Print Business**

September 24, 2024

#### Toshitaka Uemura

**Corporate Senior Vice President** 

Division President of Professional Print Business Headquarters



#### **Businesses of Konica Minolta**





## **Overview of Production Print and Industrial Print Businesses**

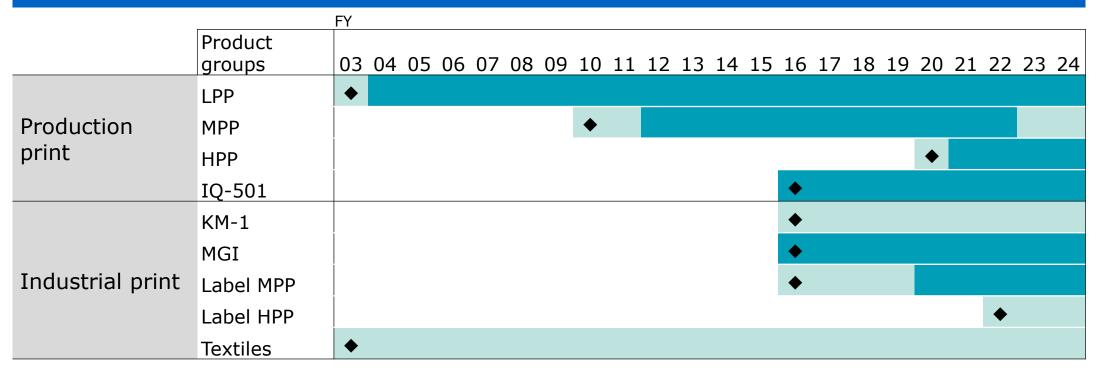


#### **Professional Print Business: Basic Guidelines**



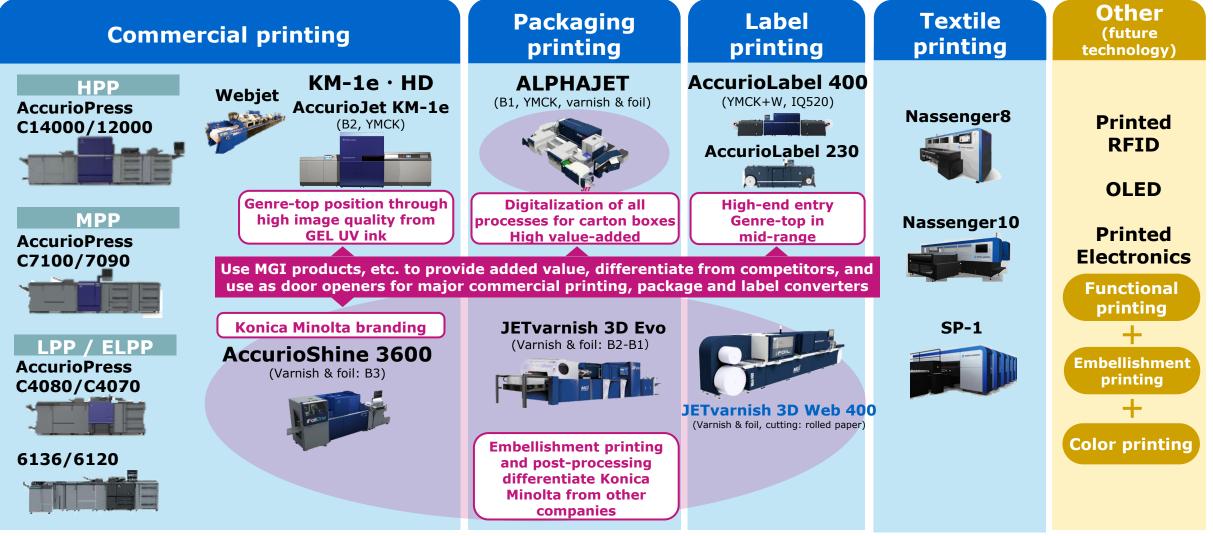
- Select winning segments in growth fields and expand business
- Devise winning scenarios (expanding customer base and applications, advance and expand the value provided) and secure genre-top position (expanding nonhard revenue)

#### Timing of business start for each product group and status of gaining genre-top positions



#### **Business Domain: Production Print / Industrial Print**





Blue text: New products

- High-quality printing at growing printing companies / Expansion of digital printing in a printing area that will not experience declines
  - Process improvement through digitalization
  - Business expansion that focuses on countries/markets where relevant industries exist © KONICA MINOLTA 5

#### TAM and SAM in Target Areas (Competing in Growing Markets)



TAM: Analog printing equipment vendor + digital printing equipment vendor market size SAM: Market size of digital printing equipment vendors

Market	Market trends/Growth strategies		2022	2025	2029	CAGR
<ul> <li>The overall market declined due to digital media. On the other hand, SAM expanded due to an increase in the proportion of digital printing.</li> <li>Overall, the number of units is declining, with ELPP and LPP expected to</li> </ul>		ТАМ	10,280	9,800	9,040	-1.8%
printing			1,320	1,450	1,740	4.0%
Label	<ul> <li>Both the overall market and the digital printing ratio are growing. Digital printing market is expected to grow 4% per year (CV22 to CV20)</li> </ul>	ТАМ	584.9	686.0	877.1	6.0%
printing	<ul> <li>printing market is expected to grow 4% per year (CY22 to CY29).</li> <li>Market development with our unique electrophotographic method</li> </ul>	SAM	148.5	165.0	200.6	4.4%
• The overall market will grow significantly, but the digital printing ratio is very low. Streamlining not only the printing process, but also the entire process, including part processing is the low to proceed at the growth of digitalization		ТАМ	4,670	5,700	6,930	5.8%
<ul> <li>including post-processing, is the key to accelerating the growth of digitalization.</li> <li>Developed Alphajet at MGI and introduced the first printer to a customer in France</li> </ul>	SAM	28.0	57.9	142.6	26%	
Toxtilo	<ul> <li>Significant growth expected for both the overall market and digitalization</li> <li>The environmental problems of wastewater and disposal in the apparel industry have been getting a lot of attention, and digitization efforts are accelerating.</li> <li>Accelerate digitalization by developing dry ink that does not require back-end process such as steaming, washing, etc. (scheduled for 2024)</li> </ul>		4,730	5,200	5,698	2.7%
printing			88.9	103.6	120.3	4.4%

(¥ billions)

#### **Growth Potential and Status of Competition in Each Market | Production Print**



Focus areas in this Medium-term Business Plan

	Process	Туре	Classification	Product name	Our market share	Number of major competitors	FY22 SAM	CAGR
	Printing process	Electrophotography	ELPP		-	3 companies		
			LPP	AccurioPress C4080/4070	1st place	3 companies		
			MPP	AccurioPress C7100/7090	3rd place	3 companies		
Commercial printing (excluding magazines)			НРР	AccurioPress C14000/12000	1st place	3 companies		
		Electrophotography/ Inkjet	B2-IJ	Accuriojet KM-1e/KM-1e • HD	2nd place	3 companies		
		Inkjet	Continuous feed IJ	-	-	6 companies or more	¥1,320 billion	4.0%
			Wide format IJ	-	-	10 companies or more		
	Back- end process	Inline plate inspection	Automatic quality optimization unit	IQ-501	1st place	3 companies		
		Embellishment	Embellishment printer	AccurioShine	1st place	2 companies		
		Cutter	Laser system	Motioncutter	Start of sales	3 companies		
		Cattor	Mechanical system	-	Scheduled to sell	0		

#### **Growth Potential and Status of Competition in Each Market | Industrial Print**

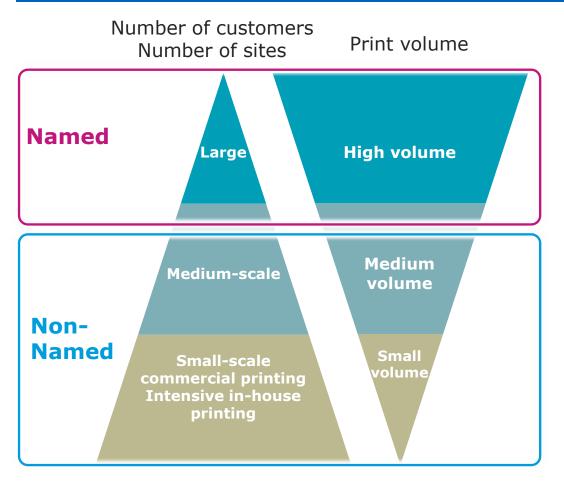


Focus areas in this Medium-term Business Plan

	Process	Туре	Classification	Product name	Our market share (planned sales)	Number of major competitors	FY22 SAM	CAGR
Prin		Electrophotography	MPP	AccurioLabel 230	1st place	1 company		
	Printing		НРР	AccurioLabel 400	New entry	2 companies	¥148.5	
	process	ess Inkjet	Water-based IJ	-	-	5 companies or more		4.4%
Label printing Back-end process			UV IJ	-	-	10 companies or more		
	De els en d	Inline plate inspection	Automatic quality optimization unit	IQ-520	1st place	1 company	billion	
		Embellishment	Embellishment printer	MGI Jet vanish 3D	-	2 companies		
		Cutter	Mechanical system	_	Scheduled to sell			
	Printing process	Inkjet	Water-based IJ	-	-			
Packaging printing	Back-end process	Embellishment	Embellishment printer	MGI Jet vanish 3D	1st place	2 companies	¥28.0 billion	26%
Integrated		system	Water-based IJ+ Embellishment printer	MGI Alphajet	Konica Minolta/MGI proprietary products	0		
	Printing	Transcript		-	-	10 companies or more	¥88.9	4.4%
	process	Inkjet		Nassenger/SP-1	-	10 companies or less	billion	4.470



### Non-hard revenue growth due to upward shift in customer mix



90% of current customer base is non-named customers

Customer type	Customer base	Forecasted number of customers	Forecasted print volume (vs FY19)	
Medium- to large- scale commercial printing	10% or less	Stable	120-150%	
Small-scale commercial printing	50-60%	Decrease	100-120%	
Intensive in-house printing	30-40%	Decrease	80-90%	
1 5				

Post-pandemic trends

Attracting medium- to large-scale commercial printing customers (named customers) and changing the customer mix is critical

Print volume by product category (assuming ELPP as 1)

- ELPP: 1
- LPP : 2
- MPP : 5
- HPP : 20

Reference: KM-1: 37

## Konica Minolta's Competitive Advantages



#### **Competitive Advantages with the IQ-501 Automatic Quality Optimization Unit: Solving Customer Problems**





#### **Color-related problems**

- Color matching
- Color condition check
- Color fluctuation
- Response to color anomalies



#### **Other problems**

- Front-to-back registration adjustment
- Inspection time
- Optimal settings for new paper
- Wasted paper due to errors or print failures

**Colorimetry &** 

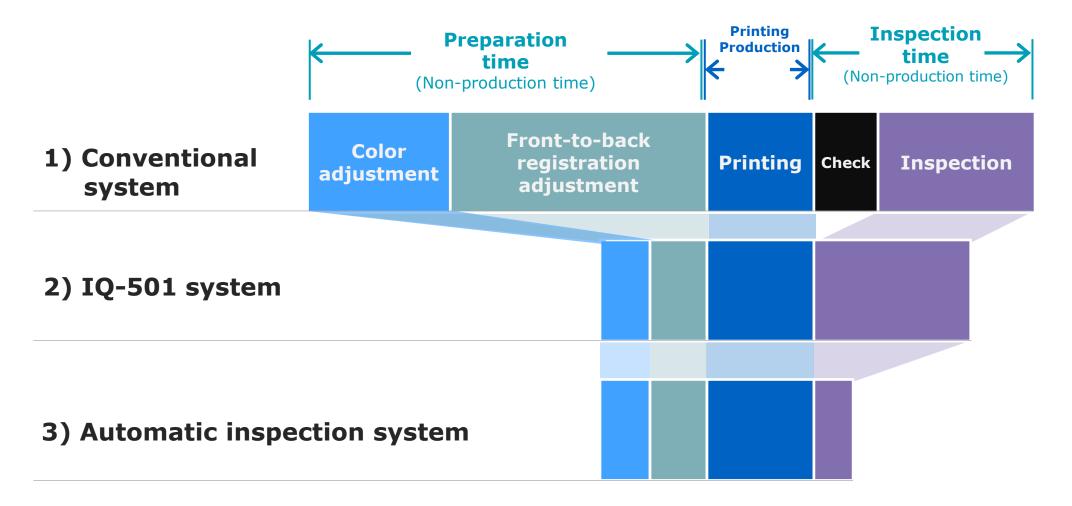
maintenance

**IO-501** 

#### **Benefits of the IQ-501 and Automated Inspection System**



Helps to significantly reduce the time required for processes other than print production, such as print preparation and verification/inspection time (work that is not chargeable to clients)



#### **Competitive Advantages of the AccurioJet KM-1e**



To switch from offset printing, the following features that are equivalent to offset printing are required.



#### AccurioJet KM-1e Customer Feedbacks

#### **Provided** "overwhelming image quality" in the fanzine printing business

that of the KM-1e."

Printing Journal (September 5, 2024 issue)

Osaka Printing Company's aims on introducing the AccurioJet KM-1e

- In the midst of a serious labor shortage, how can we ensure sales efficiency with a small number of staff?
- We want to choose a model that can provide our customers with a moving experience.

Osaka Printing Company's evaluation after installing the first unit



#### High productivity

High Image

quality

"Prints 300,000 sheets per month, which is equivalent to the output of six existing HP Indigo printers." "No machine maintenance is required when changing print jobs, so continuous printing is possible, and overtime work has been cut in half."

Reliability and stable quality

The machine is equipped with an in-line sensor that automatically detects image defects. "It is a very reliable machine when it comes to production, with zero complaints about quality from our clients," "Before we adopted this printer, there were a few complaints every month from our clients about color reproduction when reprinting, but now there are no complaints," "In a business where there are no printing samples, **stable color reproduction** is a big attraction."

After installing the first KM-1e machine, they installed another machine about six months later. The machine has succeeded in **improving labor productivity** in creating an environment and management foundation where employees, who are an average of just under 30 years of age, can work for 40 years.





#### **Competitive Advantages of Label Printing**



In order to achieve the switch from analog printing, the following features are required.

1) Affordable prices

2) High image quality

3) Operability

ility 4) Ability to handle a variety of paper types

Items 2 to 4 can be achieved using liquid or dry toner, but liquid toner is expensive.

#### Price competitiveness can be achieved by sharing engines with production print machines

#### **Benefits of sharing engines**

- A toner with a three-dimensional hybrid structure achieves high image quality and energy-saving performance.
- The IQ-520 automatic quality optimization unit measures color changes and plate misalignment caused by changes in the equipment's internal temperature, and automatically adjusts image quality in real time.
- Integrating the service network with production printers ensures that a rapid response can be provided.



	Pre- processing	Image quality	Drying load	Paper stock compatibility	Price
Liquid toner-type electrophotography	Required	•	•	••	•
Water-based inkjet	Required			•	
UV inkjet	Not required			•	
Dry toner	Not required	•	•	••	•



# Konica Minolta at drupa 2024 Highlights (Video)

Click **here** to see the You Tube video.

#### **Customers Feedback at International Printing and Media Industry Exhibition** "drupa 2024"



#### **Commercial printing**

The AccurioJet 60000, which was just launched, can perform highquality two-sided printing on a variety of paper types and has a small footprint, so it has received a great response from customers.

#### Label printing

Our electrophotographic system is highly regarded for its operability, high quality, wide range of paper types, and cost performance.

#### **Packaging printing** (printing & embellishment)

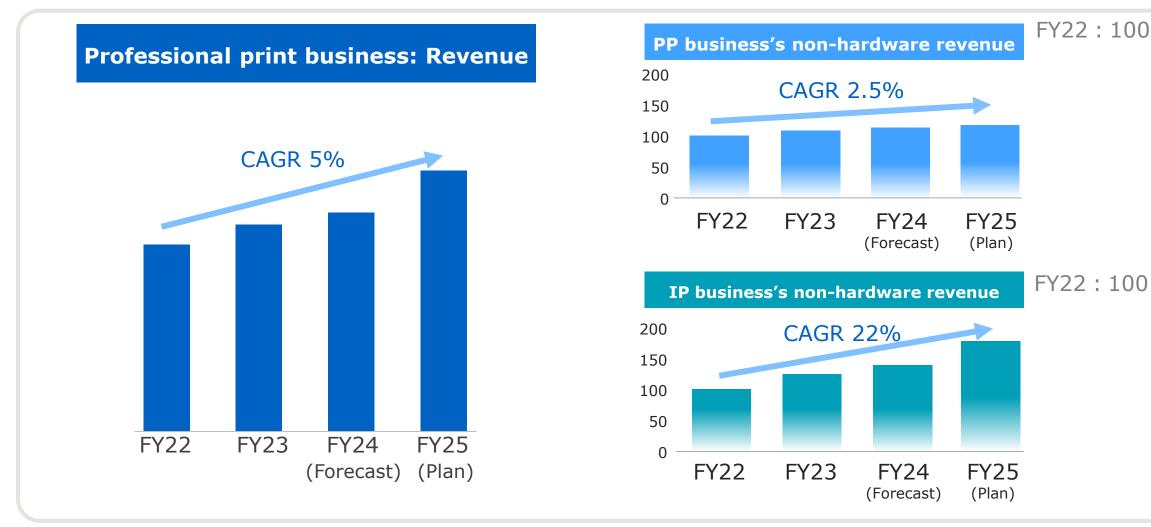
The AlphaJET, which can perform the entire process from printing to embellishment in a single pass, has been received enthusiastically by customers for its high-quality printing and technical capabilities.



#### © KONICA MINOLTA 18



- **Production Print (PP)**: Expansion of non-hardware revenue by installing more HPPs, which are expected to generate high-volume demand for printing.
- **Industrial Print (IP)**: Continued investment for growth. Expansion of non-hardware revenue and return to profitability through an increase in the number of new hardware installations.





## **Contributing to the entire printing supply chain**



#### A Sustainable Printing Ecosystem Created through the Accelerated Shift from Analog to Digital Printing





### **Contributing to society through the Professional Print Business**

Focusing on the last mile by hindering the transition from analog to digital printing

# Until the printing is completed to the customer's satisfaction

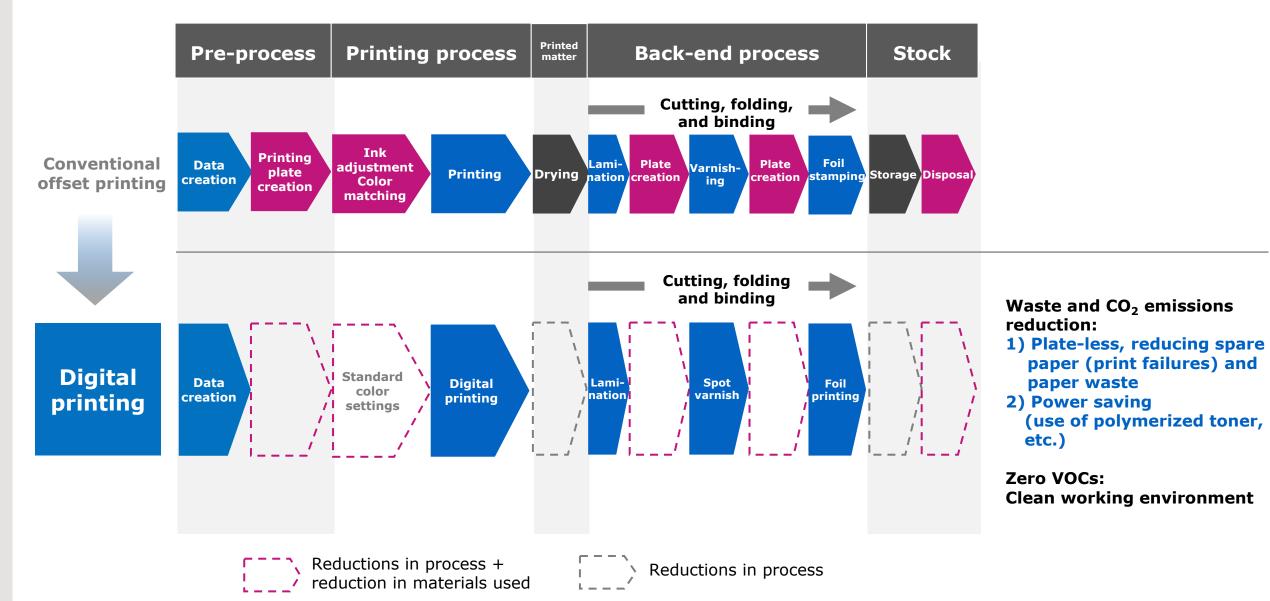
- **1.** Commitment to realizing offset quality
- 2. Commitment to printing and postprocessing

#### Until it can be used by professionals

- Attention to detail from the perspective of the printing operator
- 2. Attention to detail from the perspective of the brand owner

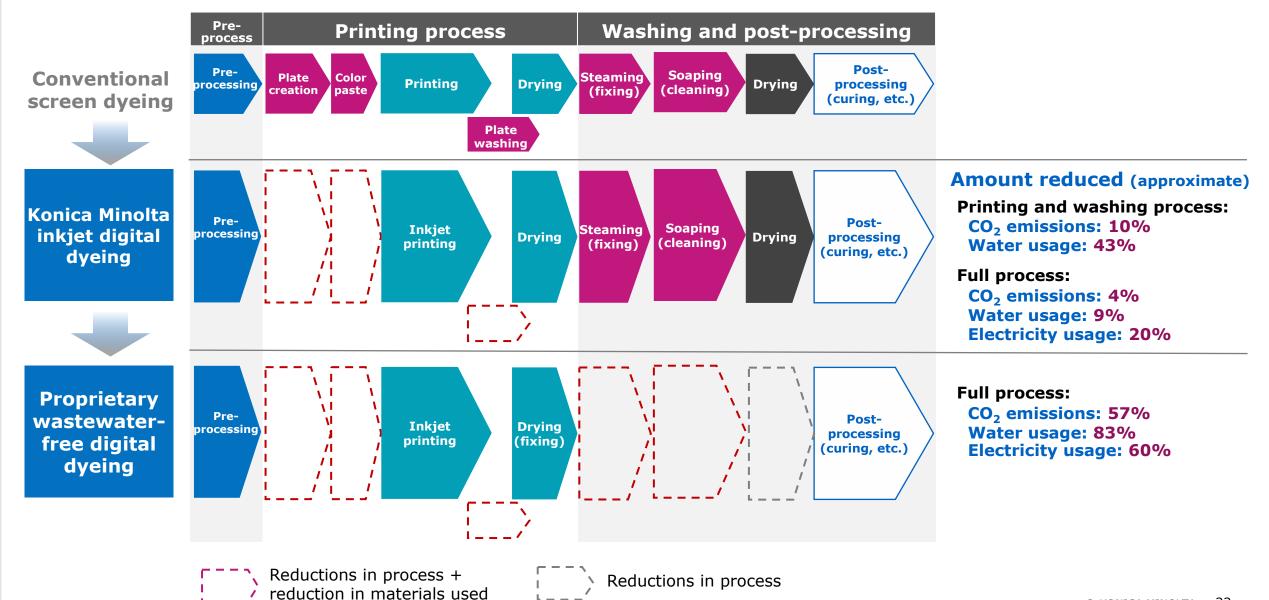
## **Contributing to the Environment through the Transition from Analog to Digital Printing in the Commercial Printing Industry**





## Contributing to the Environment through the Transition from Analog to Digital Printing in the Textile Industry

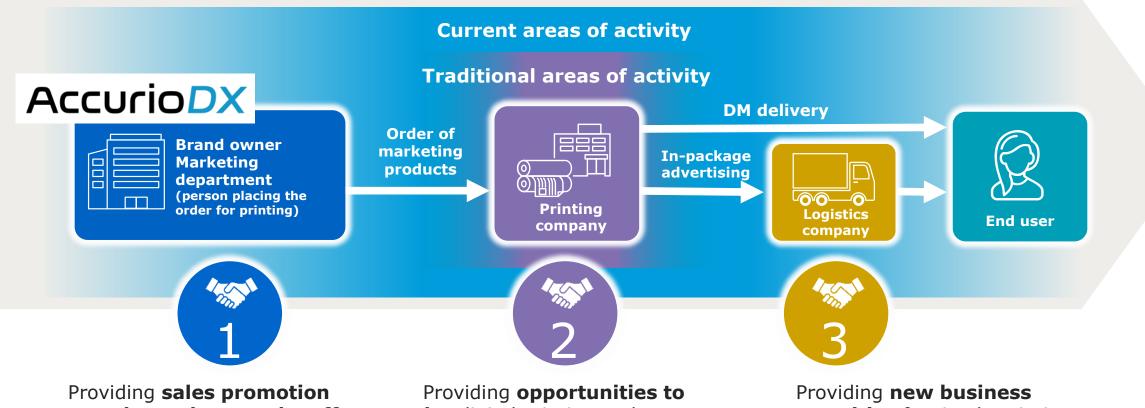




#### **Expanding Demand for Digital Printing through Marketing Reform Support**



We have supported communication through printed materials as a digital printing manufacturer. In addition to providing digital printing, we will maximize communication effects and work to expand demand by digitalizing the entire supply chain for printed materials, including brand owners, logistics companies, and end users.



support that enhances the effect of paper through digital printing Providing opportunities to order digital printing and output solutions at the lowest cost Providing **new business opportunities** for timely printing and delivery at distribution centers

#### AccurioDX: Making it Easy to Order Personalized Printed Promotional Materials and Measure Their Effectiveness





#### <Case Study> Mitsuboshi Farm, a frozen side dish home delivery service

Planning: Inglewood, Logistics: Eyes

- They want to include promotional materials that match their customers' purchasing trends.
- They want to avoid complicating the work processes in their distribution warehouse.



Sales promotion planning, packaging logistics Verifying the work process and sales promotion effects of both

Number of website visits from QR codes 1.67 times

Printing in sets for each customer to reduce the workload when packaging them together

#### © KONICA MINOLTA 25

#### **EXplainable KANSEI (EX-KANSEI) :** Proposing "Designs that Sell" through Image Analysis Based on Brain Science

- Support for design production through image analysis based on cutting-edge emotional brain engineering
- Maximize the effects of printing product packaging, posters, etc.

Renewed the restaurant's website and menu, and Improved the design of the posters to increased the number of reservations by 172% boost their attention-grabbing power by 3.1 points シアン cvar chartreuse "classy" and "solemn" シアン cyar







"relaxed" and "homely"





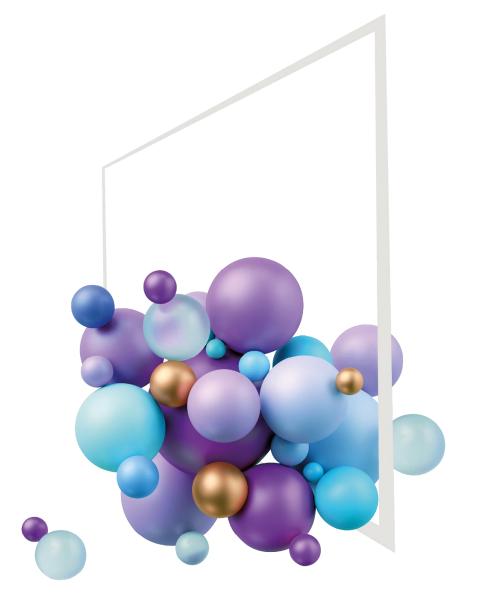
#### **Building a Sustainable Printing Supply Chain** (Putting the "Three way satisfaction" Principle into Practice)



	Society created by Konica Minolta	Material issues
Brand	Achieving high impact with fewer printing materials through effective printing	Improving fulfillment in work and corporate dynamism
Printing company	Shifting from quantity to quality Creating a workplace full of creativity Optimizing people, materials, and money by not creating unnecessary printed materials	
Society	Reducing delivery and waste through fewer printed materials	Addressing climate change Using limited resources effectively







### **APPENDIX**

Giving Shape to Ideas

© KONICA MINOLTA

#### Glossary



- Commercial · Industrial printing segment :
  - **ELPP (Entry Light Production Printer)**: Monthly Print Volume (MPV) 100-300K pages, Lowpricing product range mainly for Central Reprographics Department at large company (CRD).
  - LPP (Light Production Printer) : MPV 100-300K pages, Commercial printing market
  - MPP (Mid Production Printer) : MPV 300-1,000K pages, Commercial printing market
  - HPP (Heavy Production Printer) : MPV 1,000K pages, Commercial printing market
  - **B2 sheet-fed** : Inkjet printing system for B2 size printing. Mainly a product for commercial printing market to replace offset printing machine.
- Waste/ Wastepaper : Paper which was wasted during printing workflow. Normally it occurs in color and registration matching process



Cautionary Statement:

The forecasts mentioned in this material are the results of estimations based on currently available information, and accordingly, contain risks and uncertainties. The actual results of business performance may sometimes differ from those forecasts due to various factors.

Remarks:

Yen amounts are rounded to the nearest 100 million.