

### **Professional Printing Business Strategy**



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Business segment	Printing solutions						
Ops. Div.	Printer l	ousiness	Pro	ofessional printing business			
Market	Home	Office		Commercial		Industrial	
User	Personal	SMB & SOHO	Retail, warehouse	Stores, POP display producers, Print service producers, sign makers, fashion		Printers & large enterprise	
Purpose of use	Personal vie	ewing or use	Show oi	sell to others or output itself		has value	
Printed output	Photos, docs	Business docs, forms	Receipts & coupons, etc.	Photo proofs, CAD, posters, signage, textiles		Labels & textiles	
Products & services							



- 1. Business Overview
- 2. Target Markets
- 3. Epson's Strengths
- 4. Actions
- 5. Sales Targets and Growth Investments







## **Business Overview**







Professional printing business initiatives in the Epson 25 Mid-Range Business Plan (FY2016-18)\*

\* The 3-year plan announced in March 2016

Establish outstanding competitive advantage with hardware, improve support and other organizational infrastructure, and achieve solid growth in new domains.

Provide simple, flexible inkjet manufacturing processes in new domains (signage, textiles, labels) to accelerate industry shift to digital.



### Initiatives to Date



Since launching our commercial printer business in 1999, we have led the commercial and industrial printer markets in image quality and have continued to innovate and expand our customer base.



5

### Analysis of the Situation in the Professional Printing Business EPSON

Category	Description
<b>Opportunities</b> Targeted markets	<ul> <li>Growth of digital printing market (signage, textiles, labels) due to a shift from analog systems in commercial &amp; industrial printing</li> </ul>
<b>Strengths</b> Accomplishments under SE15	<ul> <li>Improved inkjet technology to enable commercial and industrial digital printing (including production engineering and patents)</li> <li>Built a vertically integrated business model</li> <li>Main strengths in each area (currently)</li> <li>Brand power in photo and graphics printing</li> <li>Expertise and insights in textile printing (M&amp;A and alliances)</li> <li>Highly competitive products in the label printing (PFU)</li> </ul>
<b>Issues</b> Things not achieved under SE15	<ul> <li>We were unable to provide the value sought by customers due to a weak lineup and lack of knowledge in growth markets.</li> <li>&gt; Insufficient product competitiveness in the signage printing</li> <li>&gt; Slow to expand sales territory in textiles (DTF)</li> </ul>

PFU: Print for Use \* See page 34 for details. DTF: Direct to Fabric \*See page 27 for details.



# Target Markets

## Target Market Size



As the \$33 billion (approx. 3,500 billion yen) global market goes digital, **Epson** will lead the printing industry's transition with inkjet technology.



### Digital Market Forecast, Market Value (Printers + Ink) Basis



There is huge room for growth in signage, textile, and label printing



Changes in the World and in Customers in Growth Markets



#### Changes in the world: Transition to digital printing accelerating

Diversification of needs & expansion of short-run print jobs

Diversification of design. Pursuit of individuality & differentiation Heightened sensitivity to the environment and costs

**Customer changes: Commercial & industrial printer requirements** 

Increase in short-run print jobs Print high-quality, complex designs

Simple, highly productive systems

Epson will fully support customers in the transition to digital printing by taking advantage of the collective strength of the value chain, extending from key component development to design, manufacturing, sales, and service

### Basic Strategies (Epson 25 Mid-Range Business Plan)



Establish outstanding competitive advantage with hardware, improve support and other organizational infrastructure, and achieve solid growth in new domains.

#### **Existing markets**

Provide new products & services that meet customer requirements while maintaining high market share



#### **Growth markets**

Provide simple, flexible inkjet manufacturing processes to accelerate industry shift to digital.





# Epson's Strengths



## PrecisionCore Advantages: Basic Performance

 Thin-film printheads manufactured using precision MEMS fabrication technology that faster and offer better image quality than conventional inkjet printheads
 Proprietary production engineering, patents, etc., make it hard for competitors to keep pace



### PrecisionCore Features: Scalability





### Compatible with Ink for Almost Any Application



PrecisionCore printheads are compatible with a wide range of inks
 Ink compatibility allows expansion into various customer applications

Category	Photo & Graphics	Signage	Textiles	Labels		
Inkjet printheads	PrecisionCore or conventional Epson printheads					
Ink type	Water-based pigment and water-based dye	Eco-solvent	Dye-sublimation, acid, reactive disperse, pigment	Water-based resin, UV		
Ink characteristics	Beautiful image quality Water-based, so easy to handle	Ideal for PVC film	Good color on fabric, waterfast, laundry resistant	Media versatility, fast prints		

### PrecisionCore—Advantages Over Competing Piezo Systems



Epson's thin-flim piezo technology allows us to increase printhead resolution without decreasing actuator displacement and drop size. PrecisionCore can be optimized for any ink used in commercial or industrial applications to achieve outstanding image quality at high speed.



Advantages over competing piezo systems

- 1. Outstanding nozzle performance (high density and durability for high productivity and amazing image quality)
- 2. Scalability (build the best printhead for the application using print chips)
- 3. Volume-produced by Epson to maximize quality stability & minimize cost

## Strength of Business Infrastructure



### Provide products & solutions that capitalize on PrecisionCore

#### Planning and designing innovative products

• Expand the platform design concept into various applications

#### High-precision manufacturing by Epson (heads & hardware)

- Achieve low total cost of ownership (TCO), incl. maintenance, with quality, low-cost heads
- Optimize production in line with product characteristics
- Share technology & expertise accumulated in internal production to increase production efficiency and quality while reducing costs

#### Responding sincerely to customers' opinions

- Expand global sales sites that handle home, office, commercial, and industrial applications
- Improve new products based on customer needs and feedback
- Provide suitable designs, software, and usability for applications

Example of technology for achieving high image quality



New frame structure & Advanced Auto Tension Control (AD-ATC) for accurate, stable media-handling \* Use in products announced in Japan on 5/10



Paper Feed Stabilizer: CMOS sensor real-time feedback improves precision in high speed media feeding

\* Use in products announced in Japan on 5/10

## Strengthening Business Infrastructure



Consolidated the commercial & industrial printer businesses in April 2015



Achieve the high performance demanded by the market and speed up the product commercialization process and business operations by combining Epson's technology, development capabilities, resources, and customer knowledge.



# Actions

- Existing market
  - Photo and Graphics
- Growth markets
  - Signage
  - > Textiles
  - > Labels

## Initiatives in the Photo and Graphics Markets

- EPSON EXCEED YOUR VISION
- The markets for photo and graphics are stable, but aim to expand sales with new products equipped with new heads and ink that satisfy strict requirements for high image quality
- Maintain a high share in photo-related applications (graphics, photos, proofs, minilabs)
- Take advantage of high image quality to develop high-print-volume corporate applications



## Photo & Graphics: Products



#### A2/A3 graphics

Maintain a high market share by further improving color reproduction & rendering of shadow detail to meet the image quality requirements of professional and demanding amateur photographers

#### Photo proofing

- Further expand sales by launching products that provide high throughput in addition to excellent image quality with a wide color gamut and high color density
- New products announced



SC-P800



SC-P800



SC-P600



SP-4900

Print size: A2/A3, water-based pigment, 8 & 10 colors



SC-P9000



SC-P20000



Print width: 17"/24"/44"/64", water-based pigment, 8 - 10 colors

## Photo and Graphics: Products



#### Corporate

Taking advantage of image quality knowhow fostered in photos and proofing, reinforce sales development by expanding the lineup, taking into account customer requirements and applications in the field

#### Minilabs

- Offer great image quality at a low TCO, and replace silver-halide and dye-sub with inkjet.
- Reduce photo lab downtime with high reliability and operation stability





Print width: 24"/36"/44", water-based pigment, 4 colors

Print width: 4"- 8"& 4"- 12", water-based dye, 6 colors

## Initiatives in the Signage Market



- Robust demand for signs and displays supporting steady market growth
- Sign and display printers require products that are reliable, productive, low-cost and reassuring
- Expand sales and share by meeting customers' expectations for high image quality & stable operation at low TCO
- Continue sales of LFP components and capture opportunities for market expansion (\*including for textile printers)

' Epson's share

HANTASY

deco

Market: ~40 k units

Lots of room for development

Source: Epson, global data









### Signage Printing



- Leverage our strength in image quality to help signage customers expand their business
- Improve market-proven eco-solvents, and offer high image quality and low running costs
- Expand sales with new products that offer outstanding print quality, color, stable operation, productivity & low TCO

### Features of new products

- 1) High-quality output
  - Wide gamut
  - Reduced banding
  - Low graininess
- 2) High productivity
  - High-speed printing
  - Low-pass image quality
  - High-speed drying
- 3) High reliability
  - Fabric wiper system
  - New stable feeding system



SC-S40600

SC-S60600

DRAUGHT



SC-S80600

Print width: 64", eco-solvent, 4 colors and 9 - 10 colors

### Initiatives in the Signage Market: Sales and Service

### Expand the sales & service network

- Strengthen relationships with global sales partners and sales channels
- Launch reliable new products, enhance manufacturer warranties, and offer reassurance
- Have major accounts do beta testing
  - Earn a strong reputation by having major accounts in Europe, the U.S., and Japan use our new products on a trial basis in their actual applications, with their media, and in the actual operating environment



# Textile Market Situation



The market is rapidly growing with replacement of analog printing and the emergence of new business categories and services that capitalize on the advantages of digital printing

Digital textiles	Direct to Garment (DTG)		Dye-sublimation	Direct to Fabric (DTF)
Epson's share	Images printed directly on T-shirts, etc.	1	Images printed on transfer paper are transferred using heat	Images printed directly on fabric
Market: ~30 k units	Cotton • T-shirts, sweatshirts • Bags		Polyester fabric • Sportswear • Soft signage • Interior decor	<ul> <li>General textiles</li> <li>Order-made garments</li> <li>Luxury brands</li> <li>Fast fashion</li> </ul>
Source: Epson, global data		C. Martin	VAXE ONE SURPCOID MILITARIA	

## Textiles: The Situation in Analog Textile Printing

- $\succ$  Color paste (ink) is created by mixing materials prior to printing, and special colors are blended depending on the design.
- $\succ$  Plants are smelly, hot and dirty, and have cleaning baths for processing large volumes of waste fluid.
- $\succ$  A large space is needed to store plates (some of which are left outdoors)



# Textile Market Initiatives



- Inkjet digital printing can be used for a wide variety of goods, from apparel to small personal items and interior goods
- Dye-sub printing has a wide range of uses, and the market promises to expand
- Leverage outstanding image quality and productivity to expand share in markets we have entered, and develop potential new markets



### Textile Printing: Products



DTG

Aim to expand sales in response to an increase in short-run digital print jobs for events, team uniforms, etc.



Print sizes:  $16'' \times 20''$ , textile pigment, 4 colors + white

### Textile Printing: Products



#### **Dye-sublimation**

- Provide textile printers and apparel manufacturers with reliable solutions that offer high productivity and low TCO
- Increase productivity and strengthen black density in response to customer demands, and expand digital textiles



### Textile Printing: Products



#### DTF

- Take maximum advantage of the expertise of For.Tex (made a 100% subsidiary in 2015) to provide the industry's highest quality digital textile printing processes and expand sales in luxury apparel
- Collaborate with Robustelli to launch digital textile printers that have high throughput and a low environmental impact to accelerate the adoption of digital processes by traditional printers and to expand in general apparel and interior goods

Monna Lisa Evo Tre: 3rd-generation Monna Lisa with PrecisionCore



Both demonstrated at the International Textile Machinery Exhibition (ITMA) (Nov. 2015)

Joint exhibit with For.Tex and Robustelli

<u>Monna Lisa Vinci</u>: Raise productivity while preserving Monna Lisa's reputation for great image guality



Print width: From 74"; acid, reactive dispersion & pigment inks, 8 colors or more \* Reference exhibit

### Textile Market Initiatives: Development, Sales and Service **EPSON**

#### Strengthening sites in Europe

• Strengthen development & collaboration to meet customers' image quality and fabric requirements

#### Strengthen sales organizations in China, Southeast Asia, etc.

- Develop multiple sales partners and sales channels
- Strengthen the direct approach to major apparel companies & textile manufacturers





Textile Solutions Center Jointly established with For.Tex April 2014

International Textile Machinery Exhibition (ITMA) Joint exhibit with For.Tex & Robustelli Nov. 2015

### Label Market Situation



Digital printing is growing on increased demand for color labels in short-run custom print jobs



 $\checkmark$  High-speed printing

Superior economic efficiency

### Label Printing: Products

#### **PFU** applications

Expand the number and range of label-making applications and increase sales by taking advantage of the ability to print on demand, in-house, and in color, by adding greater media support and functions, and by launching easy-to-use products



Use PrecisionCore lineheads to achieve max. speeds of 300 mm per second





PRECISIONCORE

Print width: 4", water-based pigment, 4 colors



### Label Printing: Products and Initiatives



#### **PFP** applications

- Answer short-run label printing needs with an efficient workflow, highquality output, excellent economic efficiency, and media versatility
- Support digital printing with direct sales and direct service to help customers generate profit and achieve stable operations





More than 200 machines in the field

Print width: 13", water-based resin: 8 colors, UV: 6 colors





# Sales Targets and Growth Investments



Approach to Sales Targets and Growth Investments

Professional printing business revenue targets



### **Growth investment**

Sustain or increase strategic investment in future growth during the period of the Mid-Range Business Plan (FY2016-2108).

- Capital expenditure: Increase due to increased production of PrecisionCore heads & new product launches, etc.
- R&D: Aggressively invest in new product and key component development
- M&As: Proactively take advantage of opportunities necessary to speed up business expansion.

projectors, robots, etc.



### **Everything Printed by Epson**



