

# Dealing with Industry Transformation and Massive Market Disruption

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# Office Printing Market in Transition











#### **MARKETS**

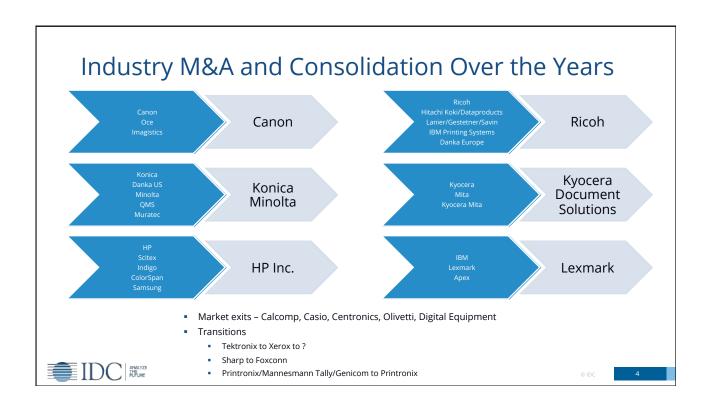
- Industry consolidation creates ultra competitive environment
- Enterprise and large business
  - Focus on controlling expenses
  - Installed base is large but customers are holding equipment longer
  - Replacing not adding hardware
  - Color penetration has peaked
- SMB is prime target for growth
  - New customers and new pages Color page growth in A3 and A4

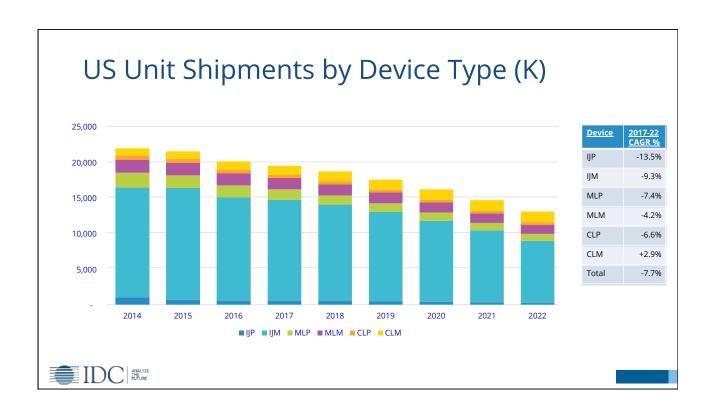
#### **PRODUCTS**

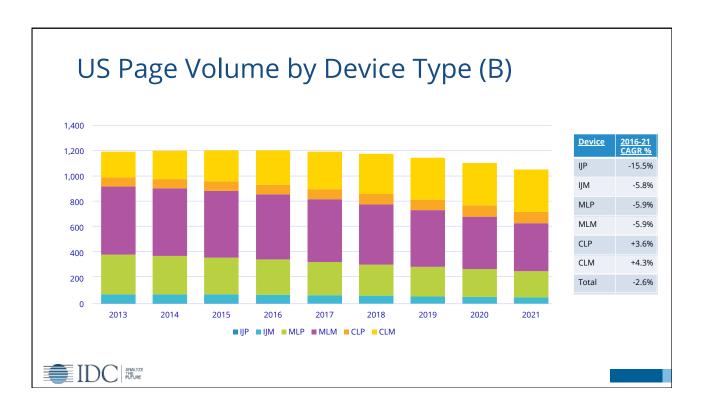
- Convergence of A3 and A4
  - Convergence of copiers and printers
  - Transition to MPS
- All vendors now pursuing A4 strategies Differentiation through software
- Price/performance for laser has peaked
- Embedded and add-on solutions enabled by platform ecosystems
- Ink and laser co-existing in the office

#### **BUSINESS MODELS**

- Vendors attacking SMB with multiple strategies
  - Blended A3/A4
  - Channel and vendor fulfilled MPS
  - Subscription services
  - Packaged MPS solutions
- Channel Upheaval
  - Convergence of contractual and transactional
- Buyer Influence expanding
  - Multiple budgets
- FM, IT, Procurement, and LOB







# A3 versus A4 MFP Shipment Growth

Color/Mono	Speeds	US A3 CAGR %	US A4 CAGR %
Color	Total	-2.7%	+5.5%
	1-10ppm	NA	-32.2%
	11-20ppm	-16.0%	-6.3%
	21-30ppm	-6.7%	+11.6%
	31-44ppm	+1.1%	+4.8%
	45-69ppm	-2.8%	+11.0%
Mono	Total	-8.0%	-3.2%
	1-20ppm	NA	-38.4%
	21-30ppm	-15.0%	-1.7%
	31-44ppm	-7.8%	-3.4%
	45-69ppm	-5.2%	-3.4%

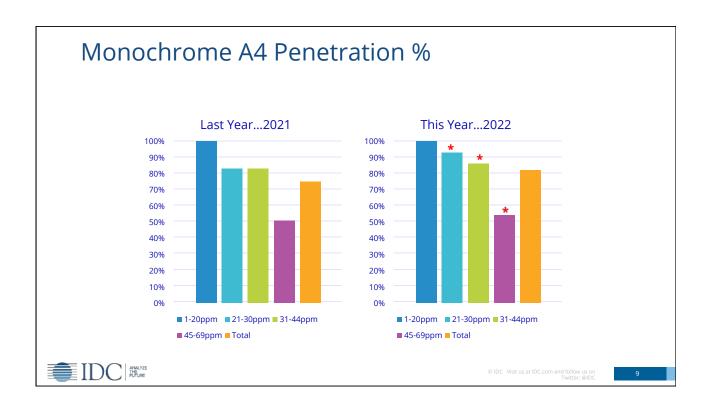
- A3 Color is slowing...negative CAGR, flat/ negative last year
  - Small growth in color 31-44ppm
- A4 Color is growing...stronger growth than last year
  - Solid growth in 21+ppm color
- A3 Monochrome is declining more than last year, particularly 21-30ppm
  - Future of this segment?
- A4 Monochrome is declining less than last year
  - Decline is slower than A3



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#### Color A4 Penetration % Increases in 11-20ppm, 21-30ppm & 45-69ppm Last Year...2021 This Year...2022 100% 100% 90% 90% 80% 80% 70% 70% 60% 50% 50% 30% 30% 20% 20% 10% 10% 0% 0% ■ 1-10ppm ■ 11-20ppm ■ 21-30ppm ■ 1-10ppm ■ 11-20ppm ■ 21-30ppm ■ 31-44ppm ■ 45-69ppm ■ Total ■ 31-44ppm ■ 45-69ppm ■ Total



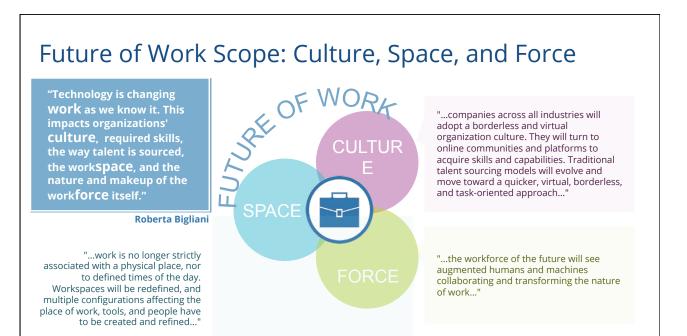
# Hardware Shipment Growth - Printers

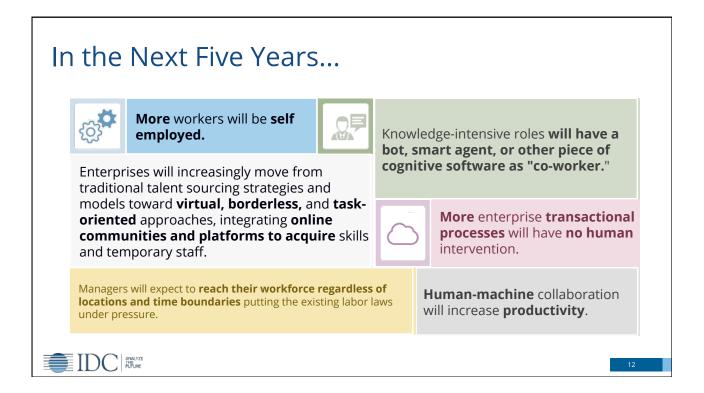
Color/Mono	Speeds	US CAGR %
Color	Total	-6.6%
	1-10ppm	-40.1%
	11-20ppm	-20.8%
	21-30ppm	-4.7%
	31-44ppm	-6.9%
	45-69ppm	+5.7%
Mono	Total	-7.4%
	1-20ppm	-46.7%
	21-30ppm	-16.0%
	31-44ppm	-6.0%
	45-69ppm	-3.8%

- Printer growth is limited to highest speed segments.
  - Color grows in 45-69ppm
  - Monochrome maturing
  - Low-speed segments getting creamed in color & monochrome

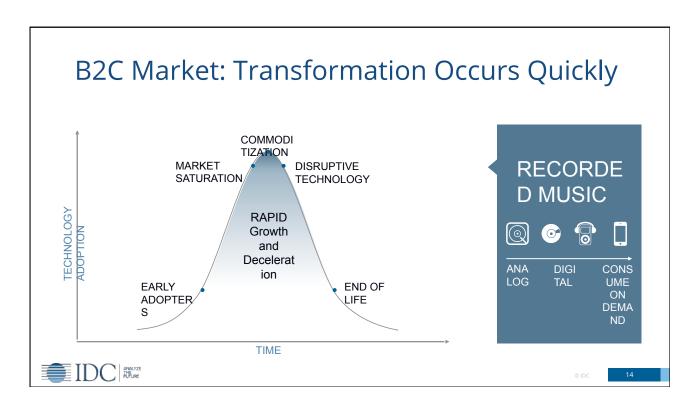


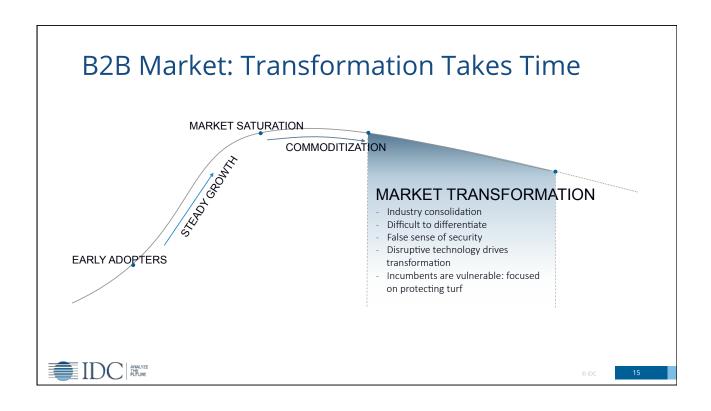
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# Vendor Strategies Fall Into Two Primary Categories



# BACK TO THE <u>FUTURE</u>

- Shore up in the core business of print
  Shore up in the core business of print
- Expand into print markets where vendor is currently under-penetrated
- Innovate through technology and solutions
- Migrate base to a contractual model
- All about service innovation and execution

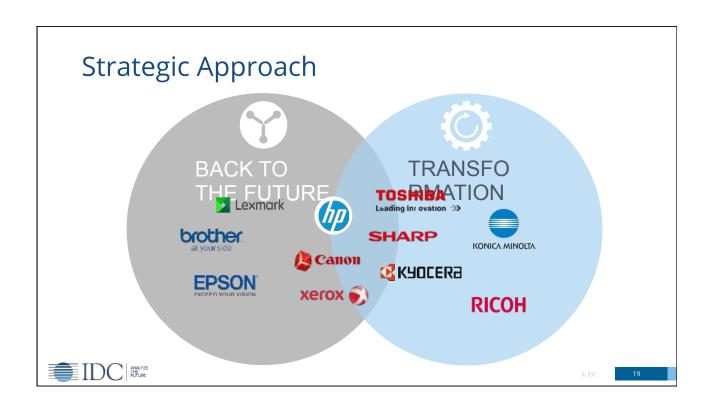


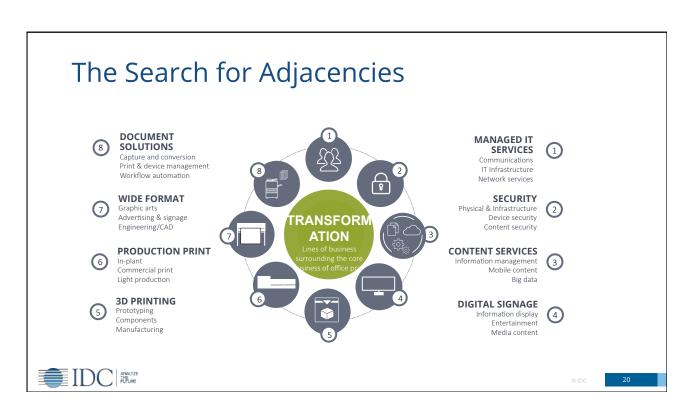
#### TRANSFORMA TION

- Expanding beyond the business of Pursue new business opportunites print and imaging
- Leverage core assets to move quickly
- Innovate throug R&D and partnering
- Growth through acquisition
- Transition more business to a servicesled model
- New LOBs help sustain the core



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### **Brother**



- Shore up core markets and maintain strength in consumer and SOHO
- Shift focus from low end SMB to mid-market and office workgroup
- Developing new market and channel strategy to target large enterprise



- Limited distribution model for its dealer and reseller product line for enterprise-level opportunities
- Building a comprehensive service and support structure to support channel partners
- Dealer sales and net new business up approximately 40% since launching initiative



- Unveiled a new product brand (Workhorse)
- Features include faster performance, improved print quality, more paper handling, security, higher toner yields, lower operating costs, and mobile support
- Workhorse product line includes mono and color printers and MFPs





- Building a contractual business
- Targeting key vertical opportunities in education, health care, and retail
- Creating a Volume Print Program in conjunction with managed print services offerings



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### Canon



- Maintain its leadership position in office workgroup and expand into tangential markets
- Grew 3.8% WW in 2017, exceeding competitor performance in Americas
- Organic growth and M&A plans
- Focus on Information
  Management as a key pillar of
  its document services approach
- New EVP and GM of Canon BISG – Sam Yoshida



- imageRUNNER ADVANCE 3rd generation
- Platform drives support for IoT, AI, cloud, security, predictive maintenance analytics
- Agile and Vera as new security partners



- Canon provides both horizontal and vertical-specific workflow solutions and services
- Solutions built around software IP: NT-ware's uniFLOW; IRIS capture, and Therefore
- Driving organizational PDM maturity – from print optimization to business optimization





- Push to the enterprise with managed services (25% growth)
- Expansion of its solutions
  husiness
- Future of Work w/AI, robotics...recognized patent leader
- Investment outside of print: mixed reality, 3D machine vision, nanoimprint lithography, next-gen image processing, medical imaging, DNA testing systems, CMOS image sensors, etc.

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### **Epson**



- Looking to capitalize on market maturity and stagnation
- Leveraging investment in consumer to push up market
- Disrupt the office printing business from the inside out
- Touting proven core inkjet technology to attack laser
- No legacy products and historical business models to protect



- PrecisionCore print head technology
- Leverageable across multiple product categories and business segments
- PrecisionCore scales from the top down as opposed to from the bottom up
- Strong heritage in scanning provides a path into workflow and other document services



- EcoTank platform to disrupt traditional consumables model (lifetime supplies)
- Attempting to pioneer a new "SuperTank" category
- Replaceable Ink Pack System (RIPS) provides alternative to contractual laser
- Quickly introduced both EcoTank and RIPS-based models in low end of SMB
- New WorkForce C20590 is first foray into workgroup A3 MFP

**EPSON** 



- Targeting SMB and enterprise with office inkjet strategies
- Pushing alternative print consumption models to attract "new" customers
- Production print and commercial graphic arts



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# HP, Inc.



- Refocus and reinvest in the core business of print
- Shore up its traditional A4 business
- Expand presence and market share in A3
- Deeper engagement with high-value OE channel
- Shift more customers to contractual sales model (across all segments)



- Samsung acquisition to gain control of A3 platform
- Solutions and apps to drive workflow automation and optimization
- SIEM tool integration (McAfee, Microsoft, others)



- Using "security" to differentiate from competitors
- Driving thought leadership on security messaging
- Initial focus on device hardening but expanding deeper into content protection
- Secure MPS and other professional security services





- Targeting 12% market share in A3 by 2020
- Push PageWide inkjet deeper into medium-large-size
- Ahead of plan in Europe & Asia, but behind in US
- 3D Printing
- Targeted growth in graphic arts and production



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#### Konica Minolta



- Transition from a "hox company" to an IT Services business
- · Growing core and transformative businesses
- · Acquisitions in key core markets (Muratec)
- · Workplace of the future... people, spaces and technology
- Workplace Hub IT services platform and ecosystem



- Ecosystem to manage and coordinate IT infrastructure and services across entire IT
- Centralized platform enables Konica Minolta and partners to deliver a full range of managed IT services



- Major acquisitions in IT and workflow Services
- · All Covered in the United States, Serians in France, Koneo in Sweden, Raber Marcker in Germany, and ProcessFlows in the United Kingdom
- System security and data protection, storage and backup management, onsite installation and support, asset management, professional IT services, help desk services,





- A lot of technology & acquisition activity outside of traditional print
- · Reception, conference room, video surveillance security, robotics, IoT, ECM, ERP, VoIP
- 3D printing
- Business Innovation Centers





# Kyocera



- Three-pronged growth strategy
- Core business expansion in hardware, software & services
- TASKalfa Pro 15000c highspeed production inkjet
- Kyocera Total Document Services (TDS) 2.0



- · All about Databank (ECM and business process)
- Alliance with Databank provides dealers access to business process improvement services
- · Direct access to the entire portfolio of Hyland ECM products
- Focus on business process improvement, business process outsourcing (BPO), workflow services, and IT services



- Cloud-based (Microsoft Azure platform) remote monitoring
- Secure cloud services platform allows Kyocera's dealers to centrally control equipment and HyPAS applications
- · Enables remote hardware configuration, report generation and troubleshooting
- Integrated with ECI's e-Automate platform





- Deeper expansion into production market
- Predictive maintenance functionality and proactive toner replenishment
- Open API interface to enable integration between dealer management systems and KFS



#### Lexmark



- APEX acquisition signaled a refocus on traditional print business
- Expand Asia Pacific market presence by competing from inside the region
- Divest software business and move to an open-platform solutions approach
- Broader channel strategy that includes all indirect paths to market: OE dealers, IT VARs, online resellers, retail, etc.



- Improved access to China Asia's largest market
- Access to Chinese government accounts alone offer substantial net new business potential
- Access to in-house, Chinabased manufacturing
- Better visibility to the aftermarket (e.g., compatible refill and clone supplies)



- APEX provides access to new, lower cost laser engines to better target SOHO and SMB
- Developing channel-specific products for developed markets
- Complete hardware refresh, big year in 2018





- Expand presence in SMB (current market share <5%)</li>
- Growth in A3 and expansion in OE channel
- MPS is an important pillar for driving growth in the midmarket sector



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#### Ricoh



- Ongoing transformation to a services-led organization has been underway for the past few years
- Still working out organizational challenges, profit loss in 2017
- New president and CEO (Joji Tokunaga)



- Several high-profile moves in the managed IT services space, including the well-publicized acquisition of mindSHIFT
- Workplace Services one-stop shop for workstyle innovation & blending physical workplace, practices, processes
- Sustainability management & communication (videoconferencing) services



- Effort to rebalance its direct and indirect channels
- Better support for SMB customers and inline with current customer buying patterns
- Transferred many of its SMB direct sales customers over to dealers
- Targeting a 50/50 split between direct and indirect





- Commercial and industrial printing applications
- Production printers, industrial inkjet, garment printers
- Projectors
- · Video conferencing
- Interactive whiteboards
- Targeted vertical solutions (healthcare, higher ed, financial services)



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## Sharp



- Leveraging Foxconn to drive core print business
- Target to be in top 3 by 2019
- Moving into B2B opportunities and divesting several consumer markets
- Focusing efforts on whiteboards, signage, collaborative technologies, and MFPs
- New president & CEO (Mike Marusic)



- ¥40 billion investment in operations and infrastructure
- · ¥20 billion to distribution
- ¥8 billion on software, dies/ molds related to robotics and digital signage
- ¥12 billion rationalizing and fixing facilities in Japan and China
- Buying power of Foxconn enables lower component costs



- · New A4 products (Foxconn)
- Refreshed A3 monochrome entry-level and mid-range.
- Production product line refresh
- Voice recognition & data management to target future smart office & smart factory

#### **SHARP**



- Foxconn partnership with Al startup to enable digital workforce
- Bridge to future products Water generators, network storage devices, displays and monitors offer diversity



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### **Toshiba**



- Focusing on B2B opportunities and divesting consumer businesses
- Differentiate to remain relevant in traditional office print market
- Increasing investment in businesses adjacent to print
- Corporate financial troubles TABS versus T-TEC



- Digital signage remains a key investment and target market
- Signage solutions targeted at Retail and Hospitality
- Interactive display systems
- OmniChannel networked communications systems



- Differenting office products in key areas: sustainability and solutions enablement
- Elevate UI customized for key verticals
- Eco MFPs





- Migrating towards solutions and services in areas of MPS, workflow, and security
- Leveraging dealer channel to push MPS and workflow services into SMB



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### Xerox



- Once again a document company focused on printing technology...for now
- Grow in SMB leveraging multibrand dealers and channel partners
- Increase penetration in A4 market, where it currently has single-digit share
- Expand leadership position in document outsourcing and MPDS



- · Financials indicate challenges
- Well-publicized battle between Icahn, board, and management
- Fuji Xerox deal terminated
- Change in management structure could signal change in strategy
- How will Xerox diversify?



- Itroduced VersaLink and AltaLink brands – largest product launch in 110-year history
- Extended ConnectKey support to all of its new A4- and departmental A3-size devices
- Common controller architecture built on top of an app-based ecosystem
- New revenue opportunities for Xerox and channel partners through sales of apps, highvalue solutions, and extended services





- A4 and SMB
- Pushing MPS into SMB market through channel enablement (MPS Essentials Suite)
- Workflow automation and professional services
- Further expansion into graphic communications and high-end production color



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## Summary



- Shows signs of aging/maturity in forecasts and M&A, but still a huge opportunity
- Hardware is a global \$40+B market, annuity and services adds exponentially to this
- Gradual change is the norm in the B2B market...remember the paperless office of the 80s
- Print is still mission critical...paper for work processes, archival and external communication



- Maintain (or grow) the core business, while considering how the office will evolve
- 3D Platform: cloud, mobile, social, and big data
- Using technologies to better run the business and tap into the future computing landscape
- Innovation accelerators offer more hints for the future direction of office technology



- · Consider what supplemental technologies are now available from your OEM partners
- Display, video, security, BPO services, IT services, etc.
- Seek solutions and programs that tap into the office evolution
- Align with partners that are in sync with your vision and where you want your business to go



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