



IPSG investor day reference slides

HP Investor Relations
April 4, 2005

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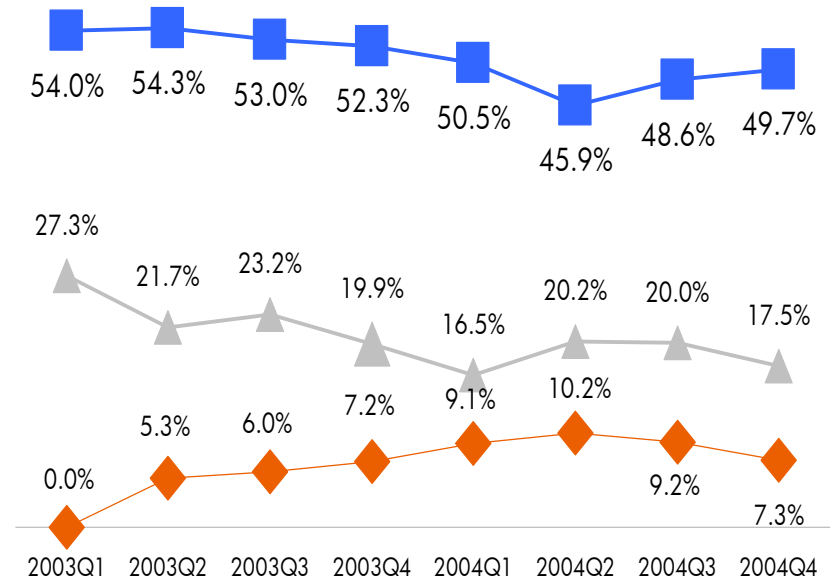
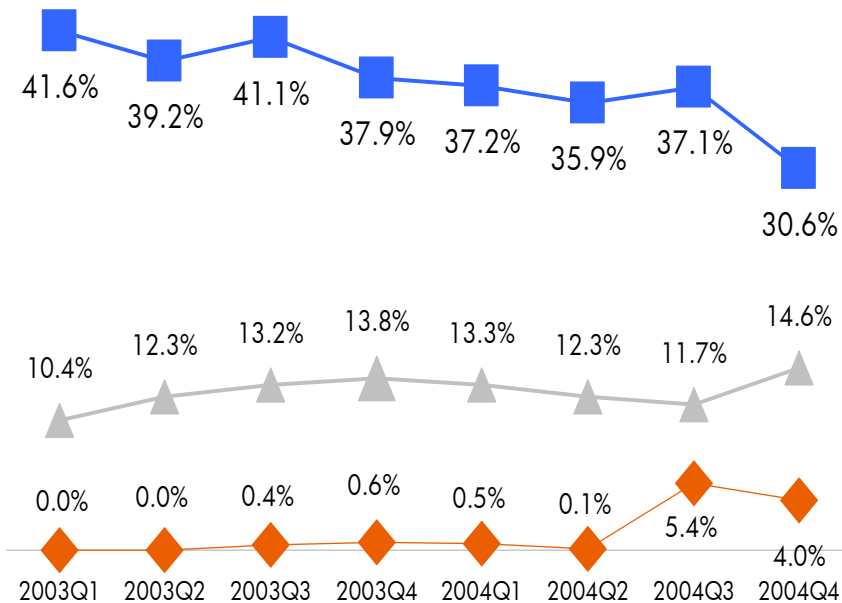
Protecting the core



WW inkjet market share

WW SF inkjet unit market share

WW AiO unit market share



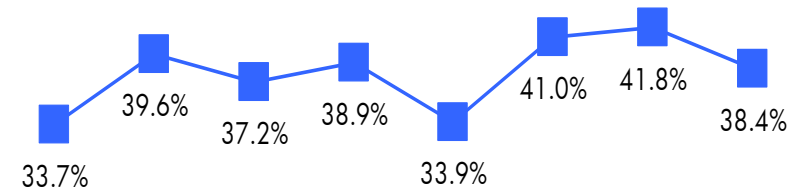
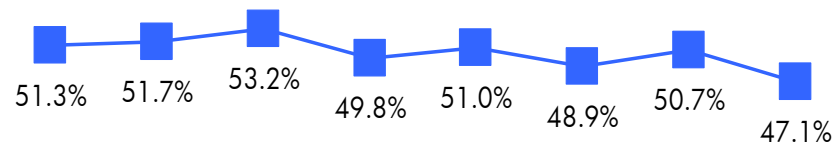
■ Dell
 ■ HP
 ■ Lexmark

Source: IDC, 4Q04

WW laserjet market share

WW mono laser unit market share

WW color laser market share



■ Dell
 ■ HP
 ■ Lexmark

Source: IDC, 4Q04

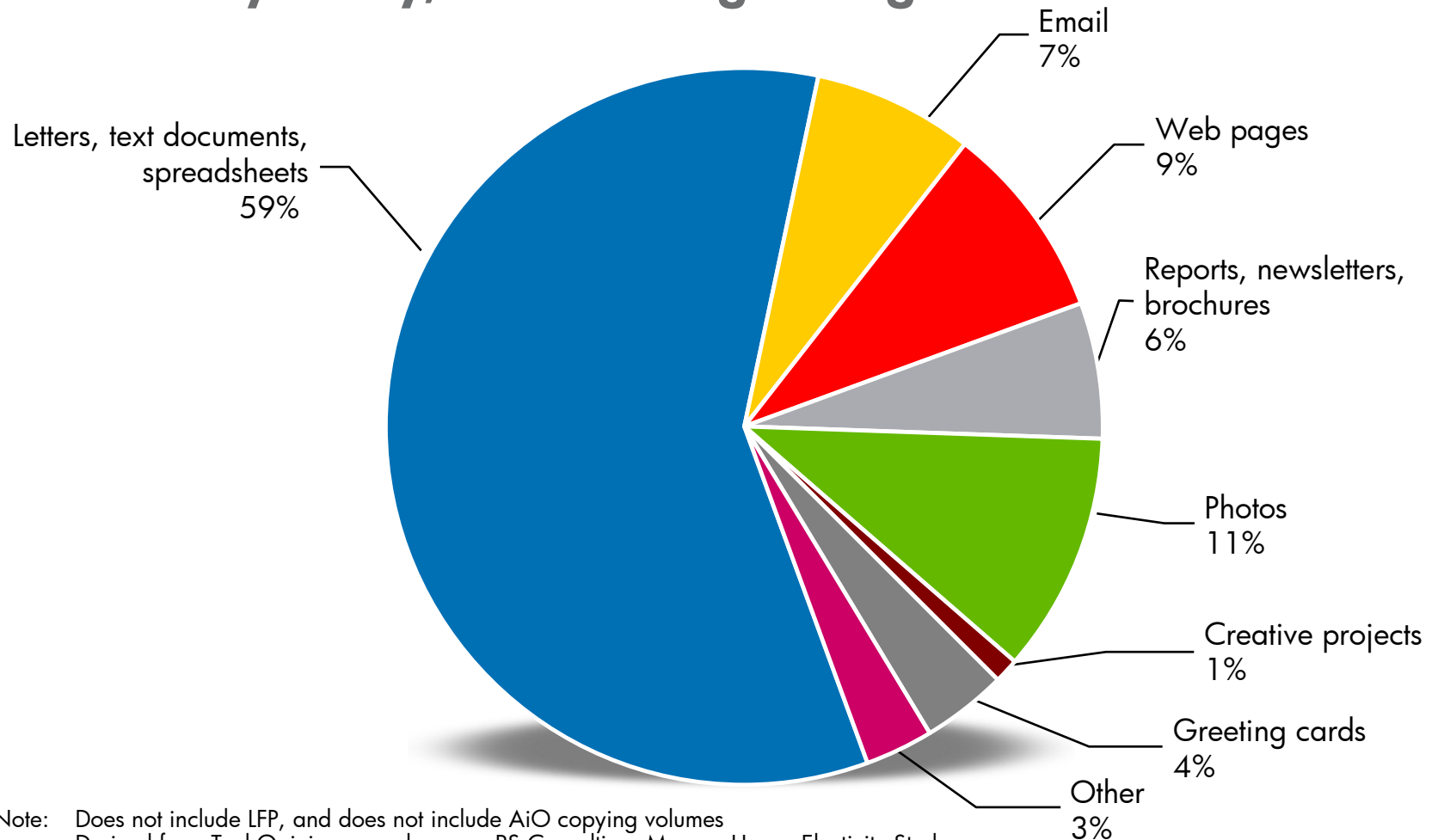
Pricing and promotion actions

Note: The following is a representative sample of pricing actions in North America and not intended to be comprehensive

- 10-20% price drops in entry level AiOs (PSC 1315, 2355)
- Reduced prices in photosmart photo printers:
 - PS 7450 from \$99 to \$79
 - PS 7760 from \$149 to \$129
 - PS 8150 from \$199 to \$179
 - PS 8450 from \$249 to \$229
- Office Jet AiO 6210 cut from \$299 to \$199
- \$50-100 instant rebates on entry level mono lasers
- \$50-75 rebates on entry level CLJ 2550 (retail starting at \$499)
- \$100-120 rebates on CLJ 3550 series (retail starting at \$699)
- \$300-400 rebates on CLJ 3700 series (retail starting at \$999)
- Further actions to include:
 - Additional price cuts on select office jets, AiOs and mid level photosmart photo printers
 - Additional instant and mail-in rebates

Consumer usage trends

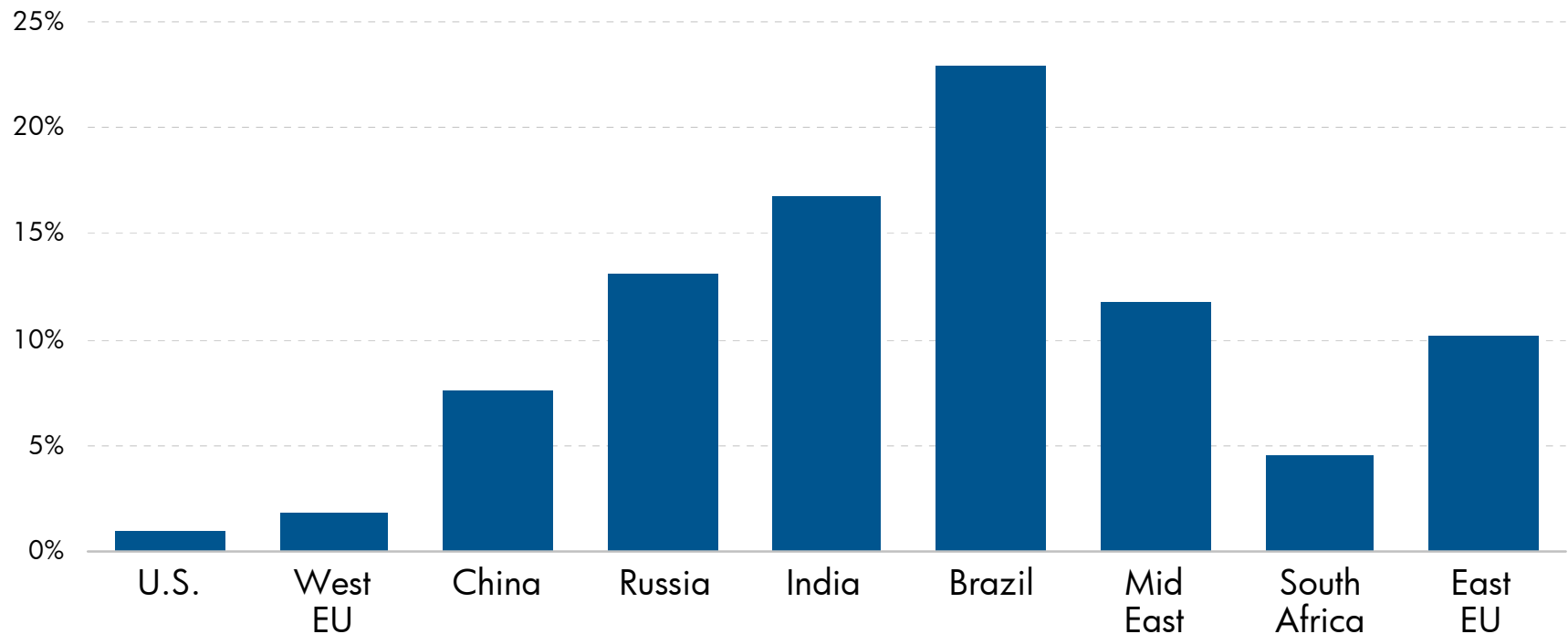
Productivity is key, emotion is growing fast



Note: Does not include LFP, and does not include AiO copying volumes
Derived from TechOpinions panel survey, RS Consulting, Magma Usage Elasticity Study,
January 2004, K. Martin, et al., Usage Alignment: Ink Usage Insight April '03 – March '04, June 2004

SF mono laser unit growth projections

Emerging geographies – CAGR '03 – '07



Source: IDC March 8, 2005

Crisp and effective competitive response



Aggressively defending our intellectual property

- Recently filed two complaints against reman/refill industry
- LaserCycle (dba "InkCycle") for alleged patent infringement
 - Rhinotek for alleged false and misleading packaging of refilled cartridges

Disproving competition's claims



- LaserJet study conducted in 2004 found that **CPP of Dell 1700 is 10% higher than HP** as compared to Dell's CPP claim of up to 35% less than HP's product
- IJ study conducted in 2004 found that average CPP of **Dell 922 is 3-8% higher – specifically 14% higher on black** and only 5% lower than HP on color as compared to Dell claim of CPP up to 64% less than HP's product



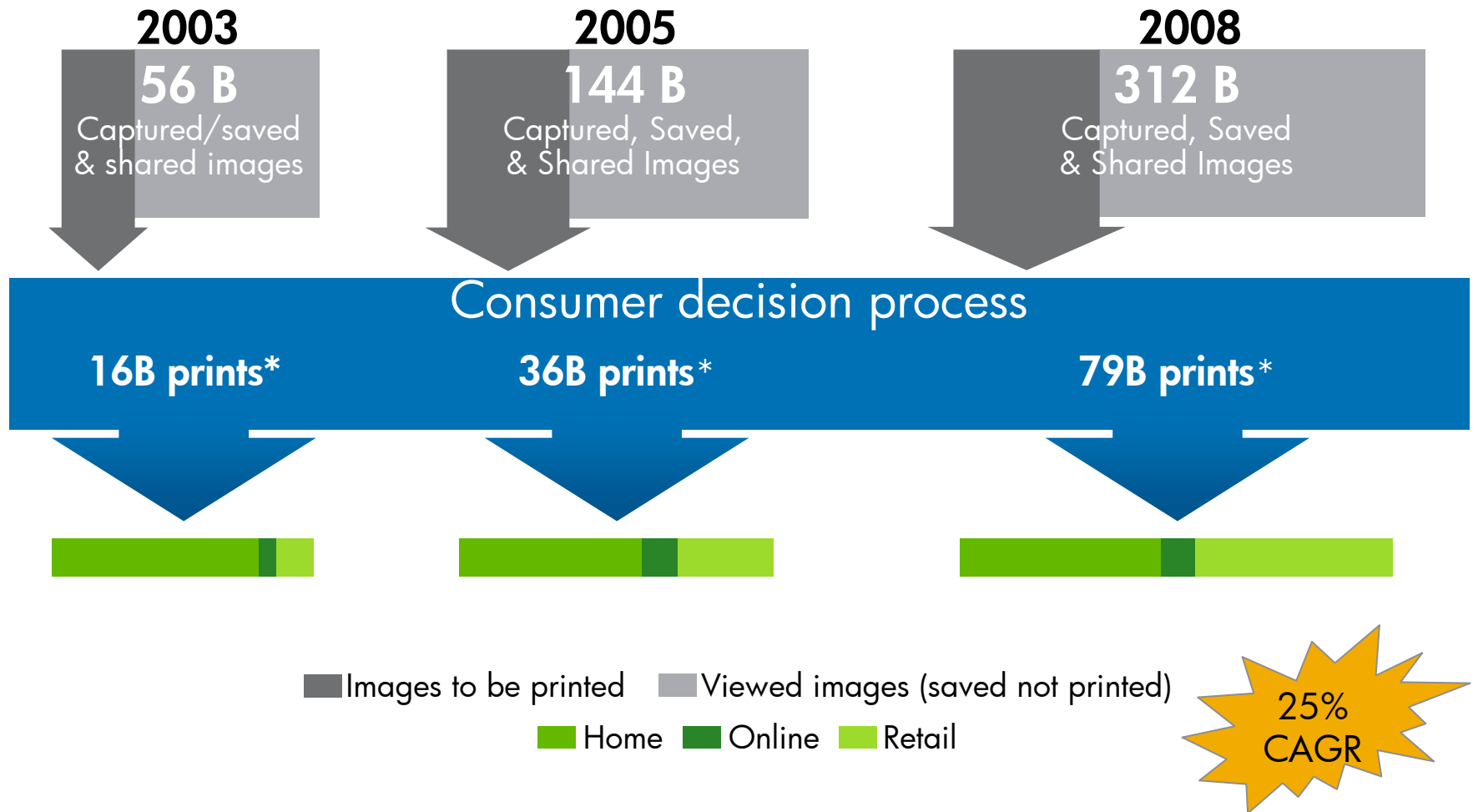
- Study conducted in 2004 found that
- HP monochrome toner cartridges and black IJ cartridges are **9x more reliable** than remanufactured alternatives, on average
 - Color IJ cartridges are **50x more reliable** than remanufactured alternatives, on average

* CPP = cost-per-page

Digital photography



Worldwide digital prints market forecast



*Note: Photo prints in the home are on photo paper and non-photo paper. *4x6 equivalents
Source: HP digital prints forecast

Snapfish acquisition¹

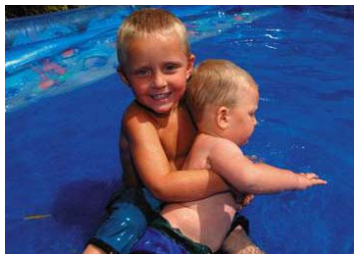


- Extension of HP's digital photography strategy
 - Digital photography portfolio that provides the best choice, convenience, control and affordability
 - In the home, through the home, from the home

- Why Snapfish?
 - Leading online service in NA
 - Over 13 million members
 - 500,000+ new members monthly
 - Broadest offering and best customer value
 - 70 unique photo gift products
 - 4 x 6" prints as low as \$.015²
 - Develop and maintain significant partnerships (ISPs, retailers, and mobile carriers)
- HP & Snapfish synergies
 - Broadest customer choice
 - Snapfish online photo expertise
 - HP worldwide customer reach

1. The acquisition of Snapfish is expected to close in mid-April
2. 4x6" prints at 19c every day and 15c for pre-paid only

“The bigger, the better”



Walmart digital photo prints¹

HP home printing

Size	Price/print	Price/print
4x6	\$0.19	\$0.24²
5x7	\$1.47	\$0.81³
8x10	\$2.84	\$1.49

Figures based on estimated US street prices. Actual cost may vary based on printer used, images printed and other factors

¹ Prices for digital photo development as of 3/17/05 in U.S. Wal-Mart 1-hour in-store pick-up, Ritz.com Internet Xpress Prints, 1-hour in-store pick-up. Shipping charges are additional cost.

² HP 95 series photo value pack with 200 premium sheets, 2 customized 95 Series tri-color inkjet print cartridges (HP Vivera Inks), suggested MSRP U.S.

³ HP 97 twin pack with premium plus sheets, estimated US street price

Home photo quality exceeding retail

- New innovations

- Home photos that resist fading up to 108 years¹
- Professional black-and-white photos that resist fading up to 115 years
- Increased color palette up to 72 million different color and grayscale combinations
- Sophisticated ink and toner formulations
- Broad selection of photo papers

- Consumers want...
 - Best print quality
 - Best performance
 - Best innovation choices



¹**Source:** Wilhelm Imaging Research, Inc. 2002, 2003, 2004

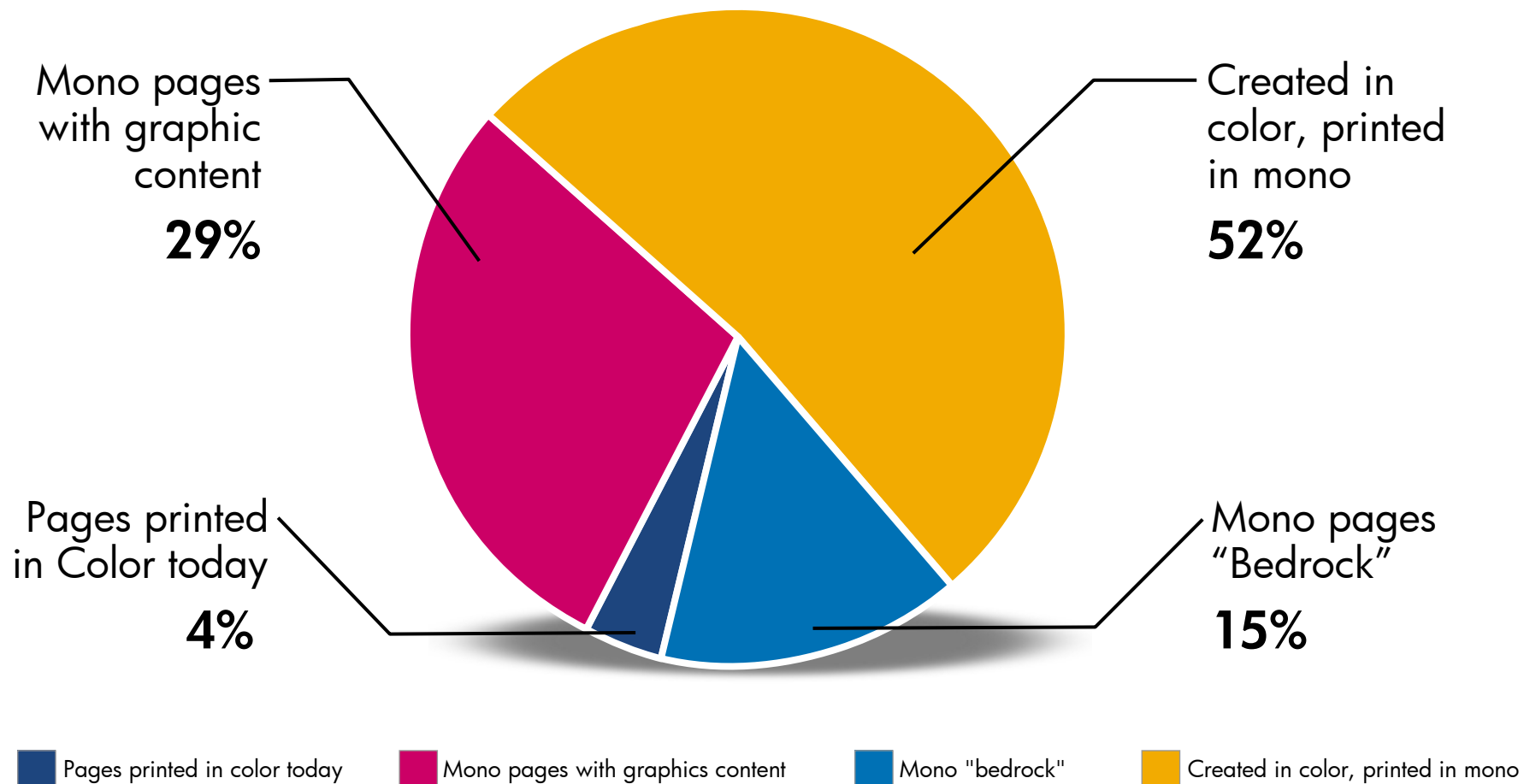
¹Based on Wilhelm-Research.com light fade testing under glass using the HP 95 or 97 tri-color and HP 99 photo color inkjet print cartridge and HP Premium Plus Photo Papers. For more information, visit <http://hp.com/go/premiumplusphoto>

Color in the office



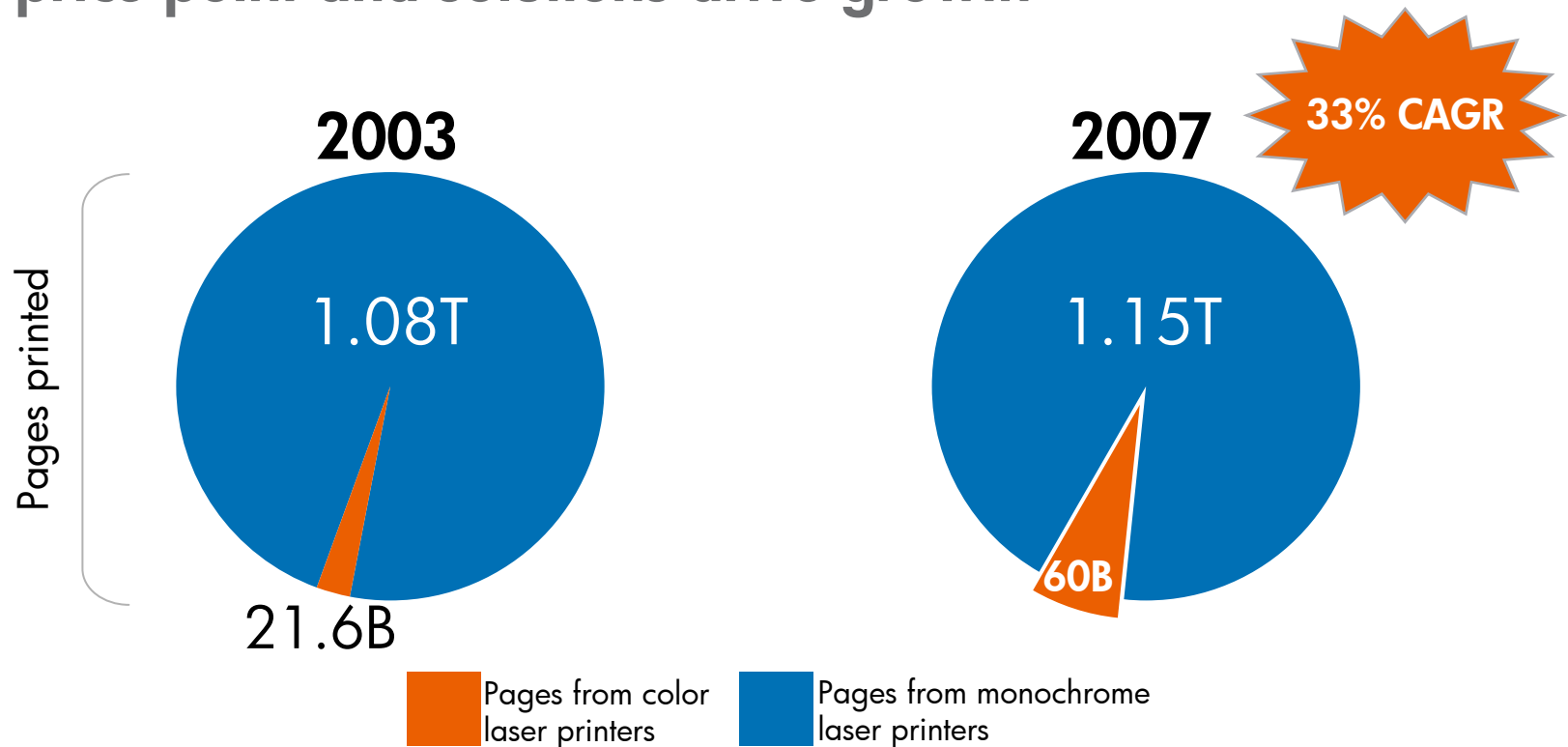
2004 office laser pages market

85% of market now ready for color



Make color mainstream in the office

New price point and solutions drive growth



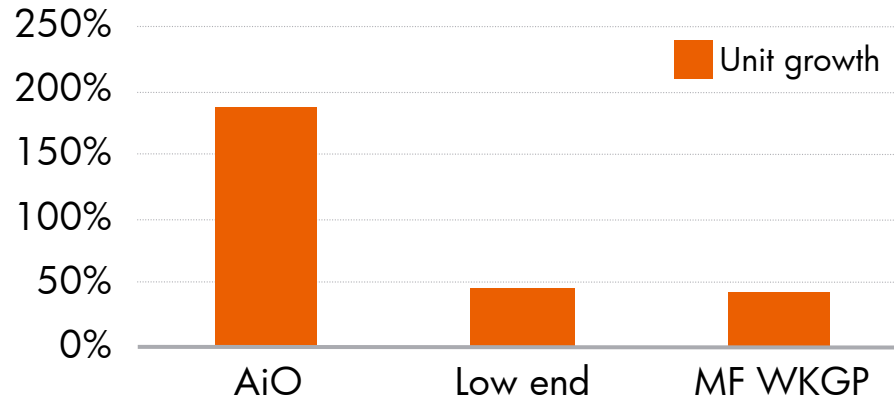
- Color LaserJet unit shipments were up 68% in 1Q05

Source: 2Q04 IDC, Lyra Research, Inc. Hard Copy Industry Advisory Service and Hard Copy Supplies Advisory Service, Second-Half 2003 Forecast

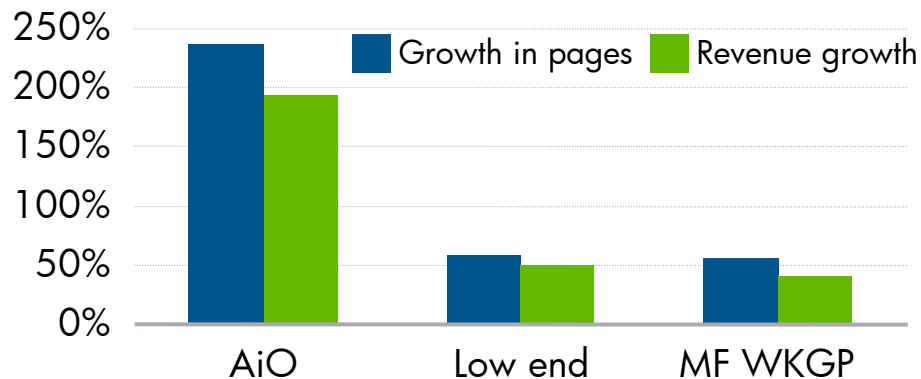
Color laser unit growth projections

CAGR '04-'07

WW color laser unit growth by segment



WW color laser page and revenue growth



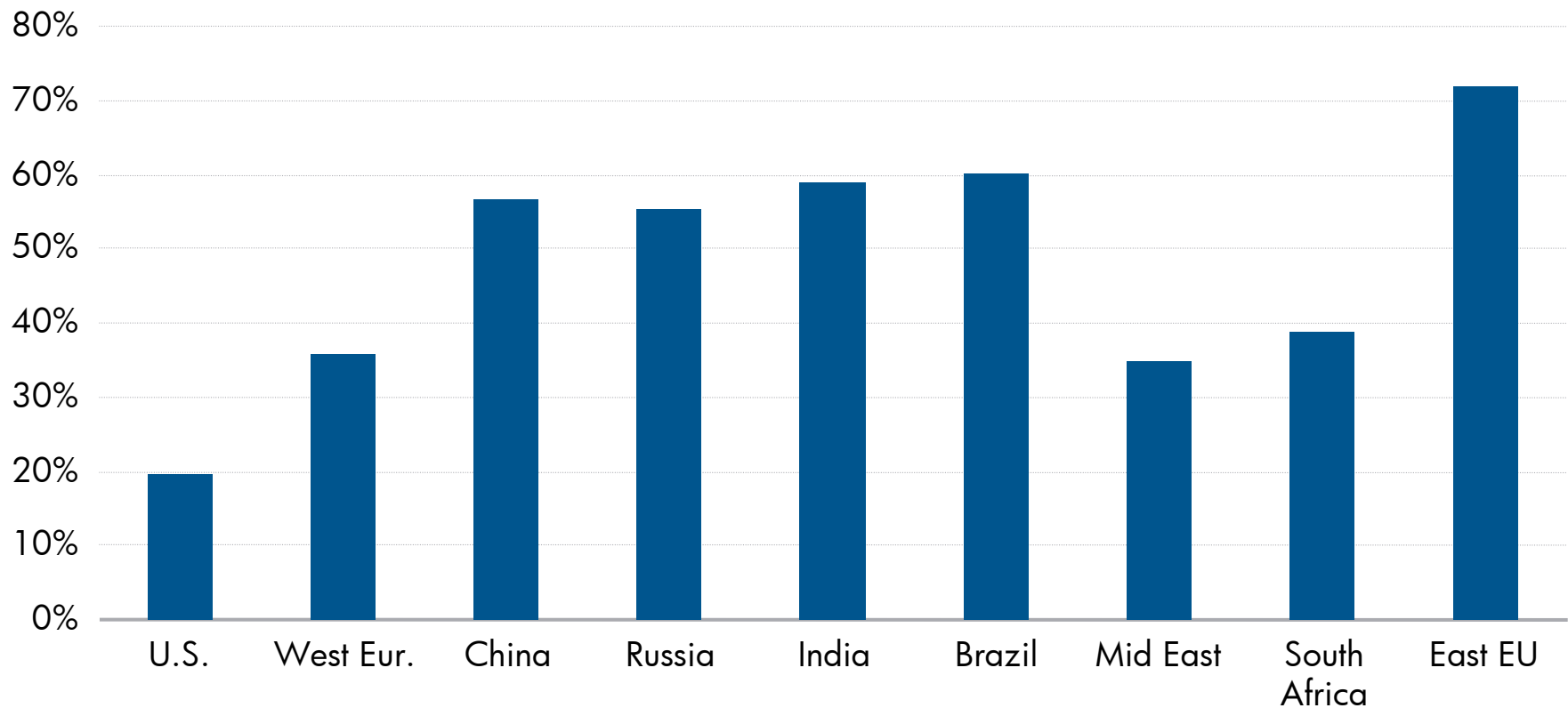
Source: HP Internal



SF color laser unit growth projections

Emerging geographies (IDC data CAGR '03 – '07)

Laser and ink shipments are increasing in emerging geographies



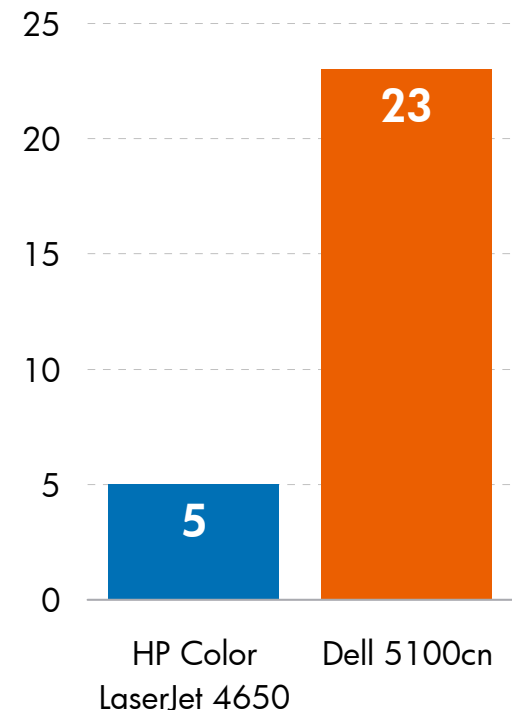
Source: IDC March 8, 2005

Reduce maintenance with HP

- Fewer replaceable parts cuts costs
 - The Dell 5100cn requires 23 parts beyond toner vs. only 5 for the HP Color LaserJet 4650 in the first 3 years when printing 10,000 pages per month
- Intelligent design ensures minimal maintenance
 - Be sure to consider the ease with which you can replace fusers and add memory. With HP, it's simple. With Dell, it may not be.
- Enough memory
 - Dell's 3000cn, 3100cn, and 5100cn can experience memory errors in best-PQ mode, which may force users to add memory to print reliably in best PQ-mode.
- 20 years of legendary reliability

Replacement parts beyond toner

at 10,000 pages/month
for 3 years

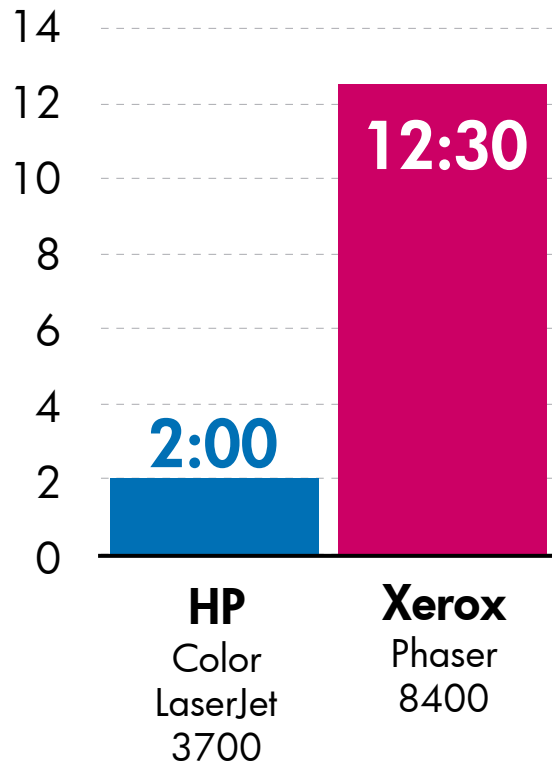


PC Magazine service & reliability survey



VENDOR	2003	2002	2001	2000	1999	1998	1997	1996	1995
Brother	B	B	C	C	D	C	D	D	C
Canon	B-	D-	C	D	D	B	B	B	A
Dell	C	—	—	—	—	—	—	—	—
Epson	B	A	A	B	A	A	A	A	A
HP	A+	A+	A	A	A	A	A	A	A
Kyocera-Mita	—	—	—	—	—	—	—	—	—
Lexmark	D	D+	B	C	B	B	B	B	B
Minolta-QMS	C	—	—	—	D	D	D	D	C
Okidata	D	D	C	C	C	C	C	D	B
Panasonic	B	B	C	A	B	B	B	B	B
Ricoh	—	—	—	—	—	—	—	—	—
Samsung	A	—	—	—	—	—	—	—	—
Xerox/Tek	E	E	C/D	C/D	B/D	D	C	C/D	—/D

Solid-ink devices have tradeoffs

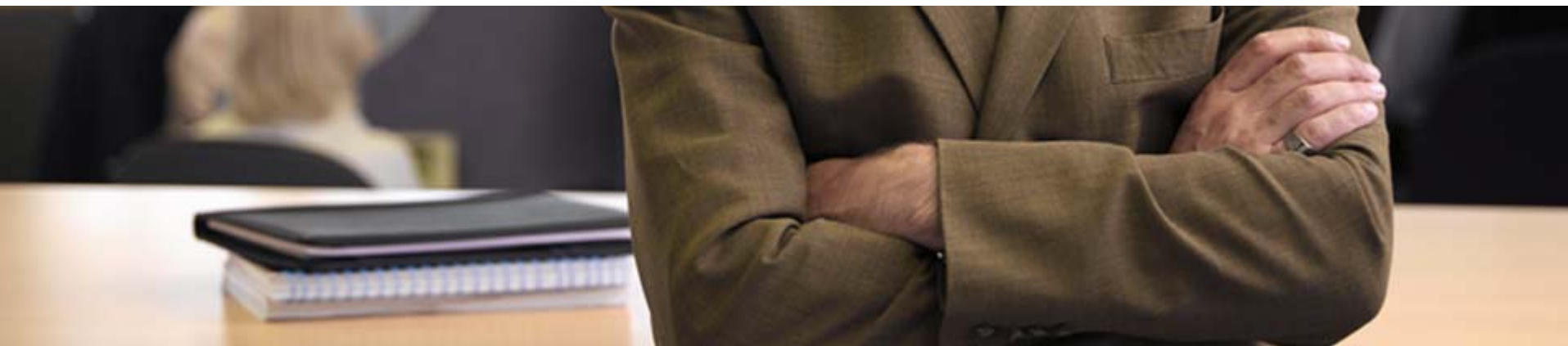


First-page-out time
(in minutes) from
power off

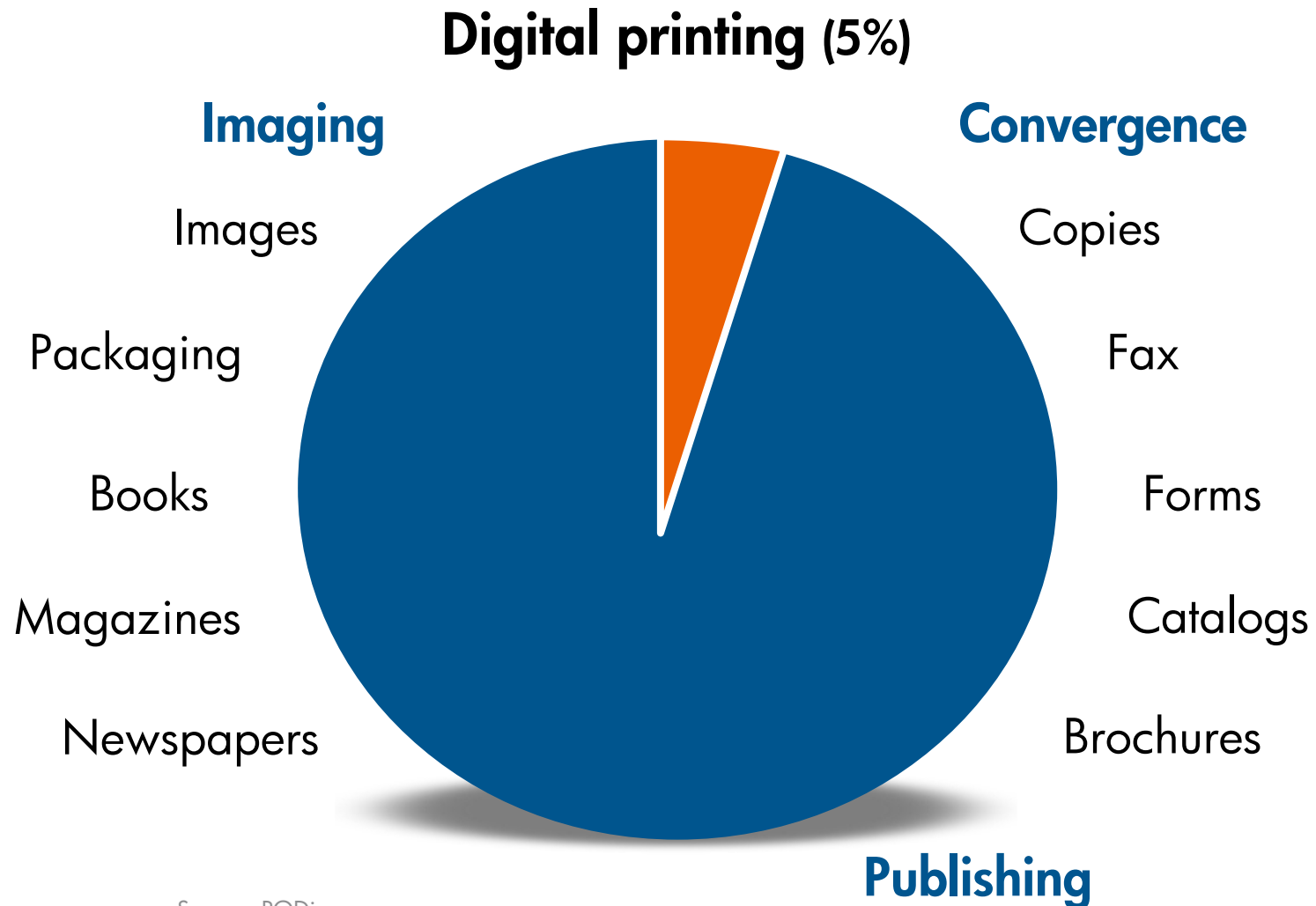
Energy usage	HP Color LaserJet 3700	Xerox Phaser 8400
Printing	400 watts	400 watts
Standby	25 watts	100 watts
Powersave	14.5 watts	N/A

The Xerox Phaser 8400 takes substantially more time to warm up and print one page from power off. Plus it consumes more power because a true ENERGY-STAR-compliant powersave mode is only available on special "S" bundles. And whenever you turn the power off and restart — or whenever it enters powersave — it purges about \$10 worth of ink through the print nozzles.

Enterprise imaging and printing



Maximizing the market opportunity

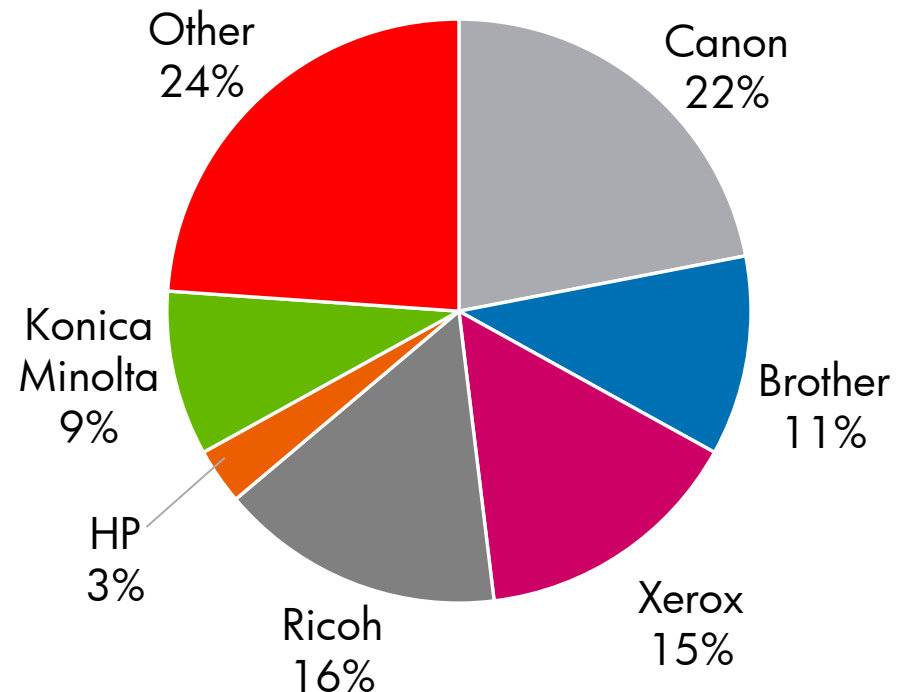


Source: PODi

Multi-function printers (MFPs)

- 2005 addressable market, including hardware and supplies of \$40B
- Slow declining CAGR of (2%) through 2008
- Estimated 30% increase in printed pages over SF devices
- Market trends include
 - I&P Optimization in the office. TCO reduction of roughly 30%
 - Adoption of distributed MFPs
 - Mono to color transition
- HP expected market share of 10% by exit 2006

4Q04 market share



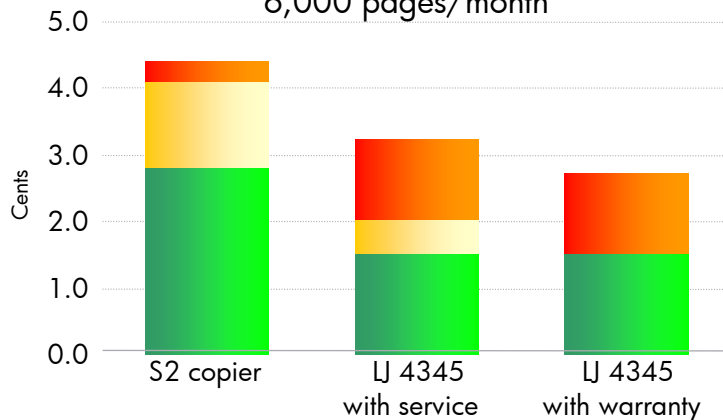
Source IDC 4Q, 2004

The distributed printer-based MFP advantage

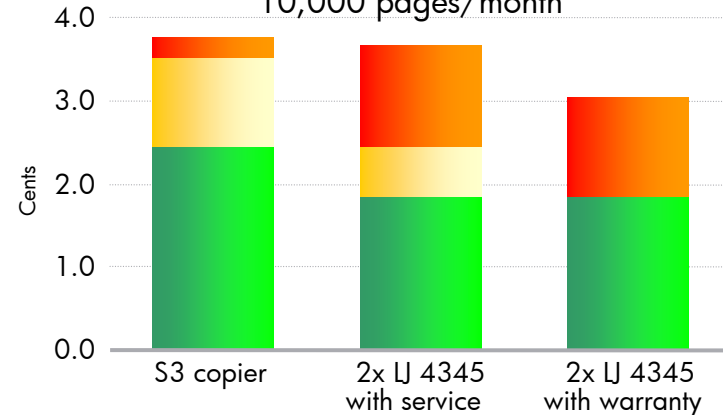


Total cost-per-page over three years

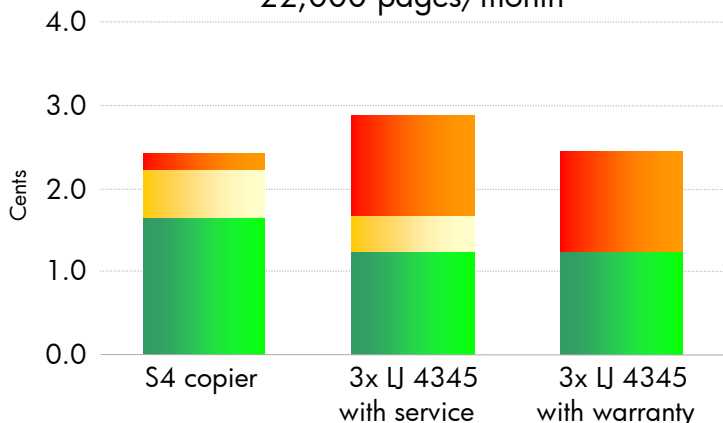
S2: 1x HP LaserJet 4345mfp
6,000 pages/month



S3: 2x HP LaserJet 4345mfp
10,000 pages/month



S4: 3x HP LaserJet 4345mfp
22,000 pages/month



■ Toner ■ Service ■ Hardware

Segment 2

- 1-to-1 deployment
- Higher performance (45ppm)
- Significantly lower total cost

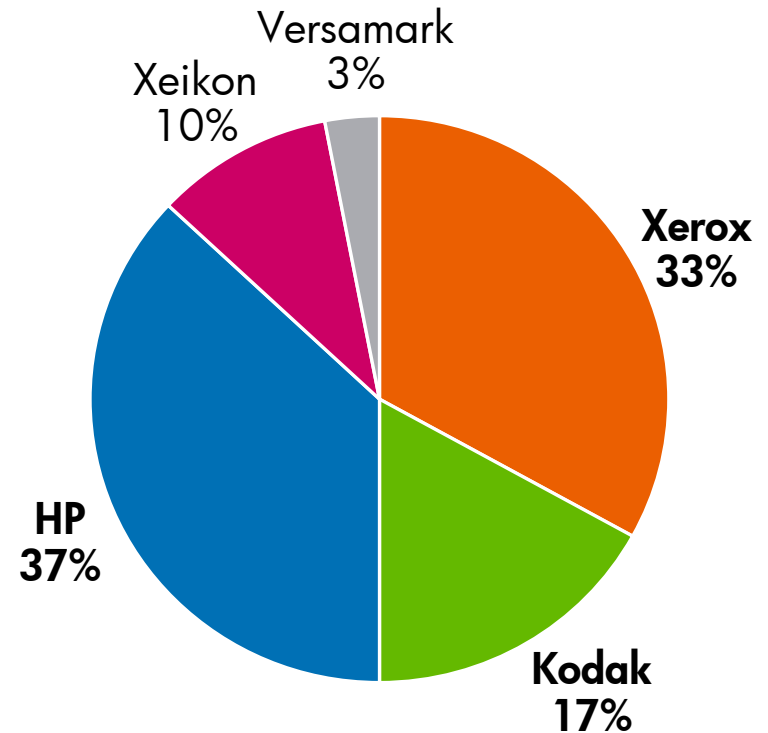
Segments 3 & 4

- 2-to-1 and 3-to-1 deployment
- Higher productivity (closer to the user, less contention)
- Comparable total cost
- Redundancy

Indigo Digital Press

- \$950M addressable market in 2005*
- CAGR of 33% through 2008
- Trends
 - Analog to digital transformation
 - TCO reduction
 - Jobs are getting shorter
 - TAT is getting faster
 - More personalization & variable data print jobs
 - Automated workflows

2004 market share



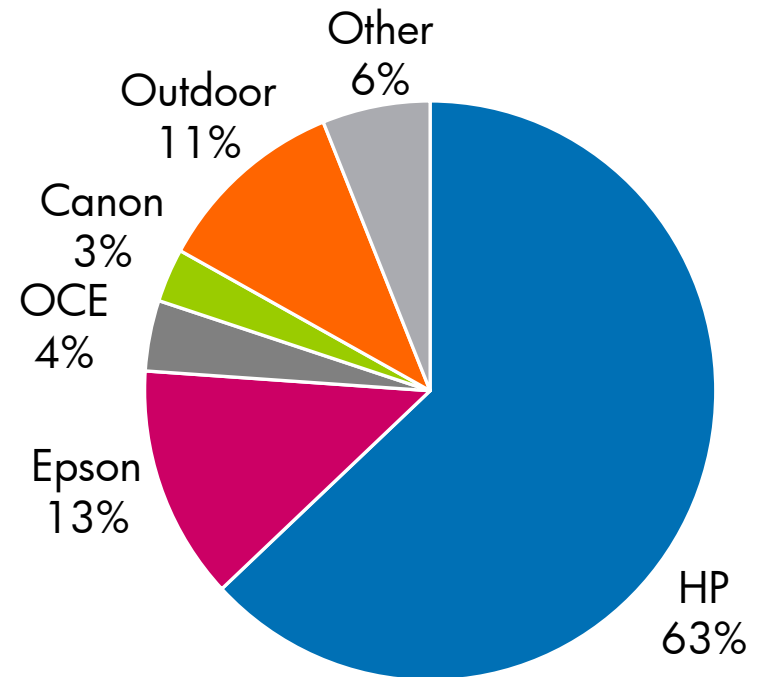
*Includes devices, supplies, services

Source: Infotrends/CAPV

Large format presses

- Market share includes 80% market share in technical devices and 33% in creative devices
- Total 2005 addressable market of \$7.5B*
- CAGR of 7% through 2008
- Trends
 - Technical/CAD: Significant growth of color printing
 - Creatives/photography: Digital adoption and in-house printing
 - PSP: High growth of outdoor applications and shift of prints from analog to digital

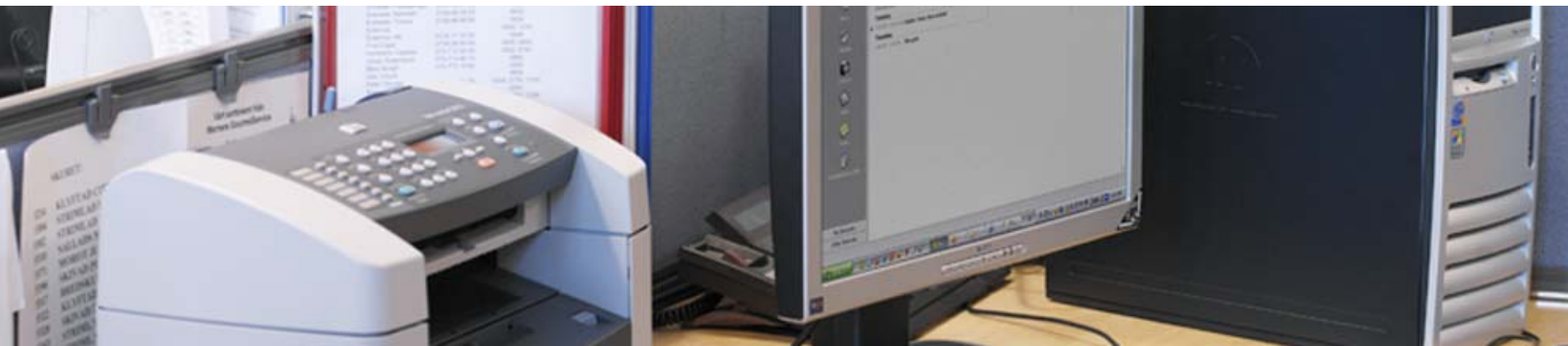
Market share



* Includes devices, supplies, and services

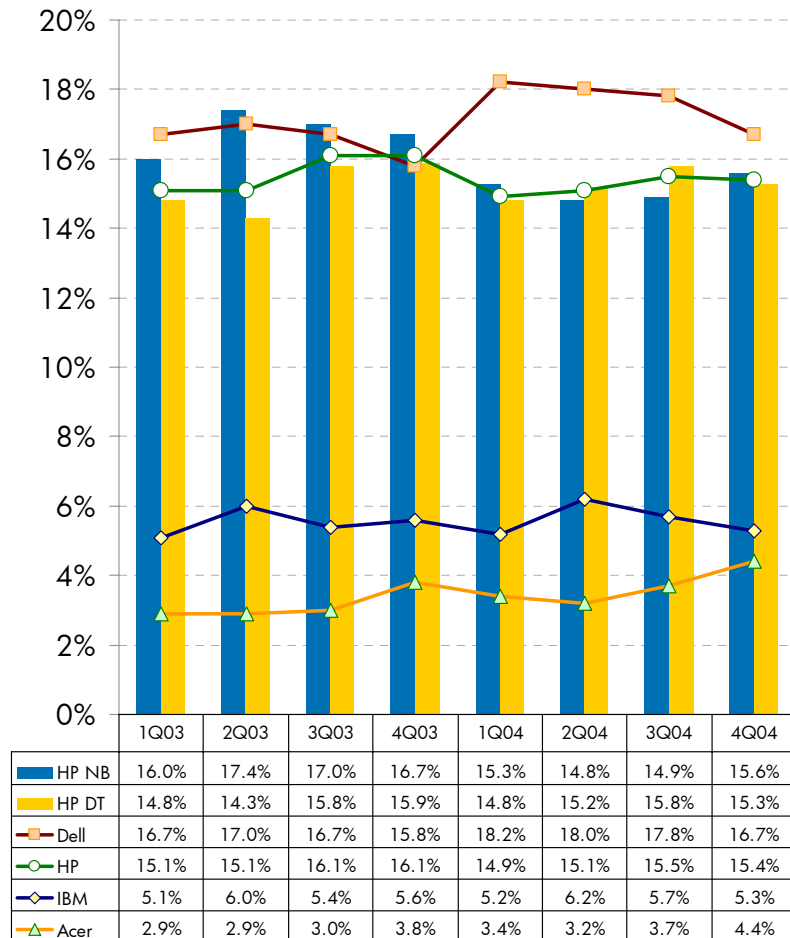
Source: ???

Personal Systems Group

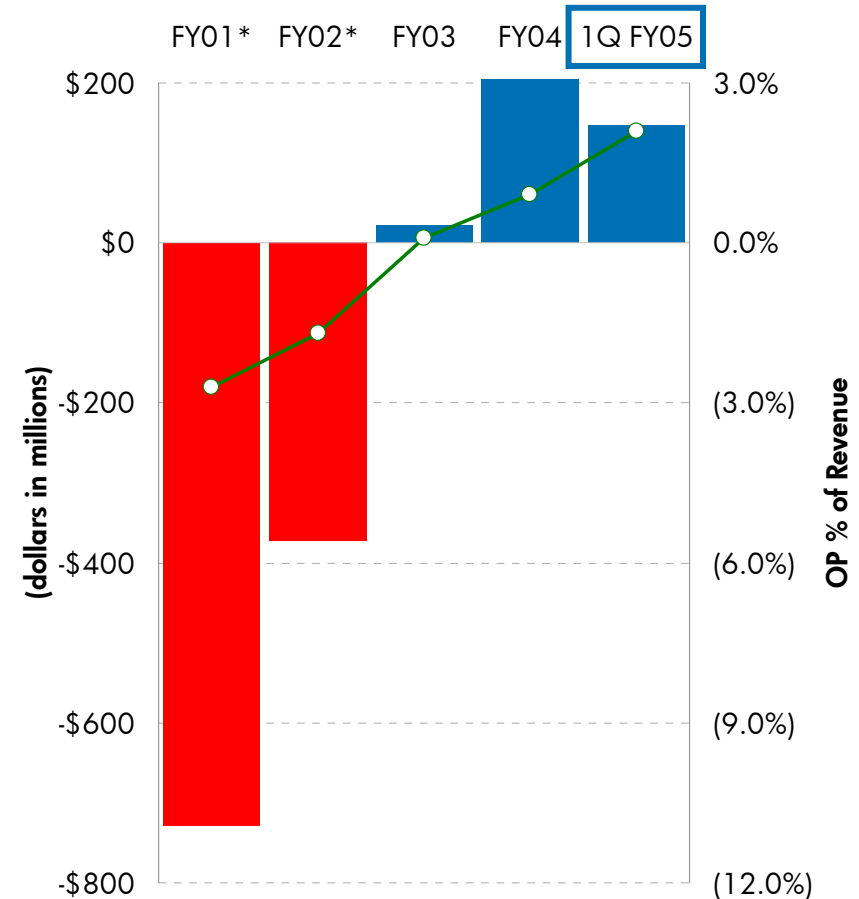


PSG – profit vs. share

WW total PC market share¹



Operating profit²

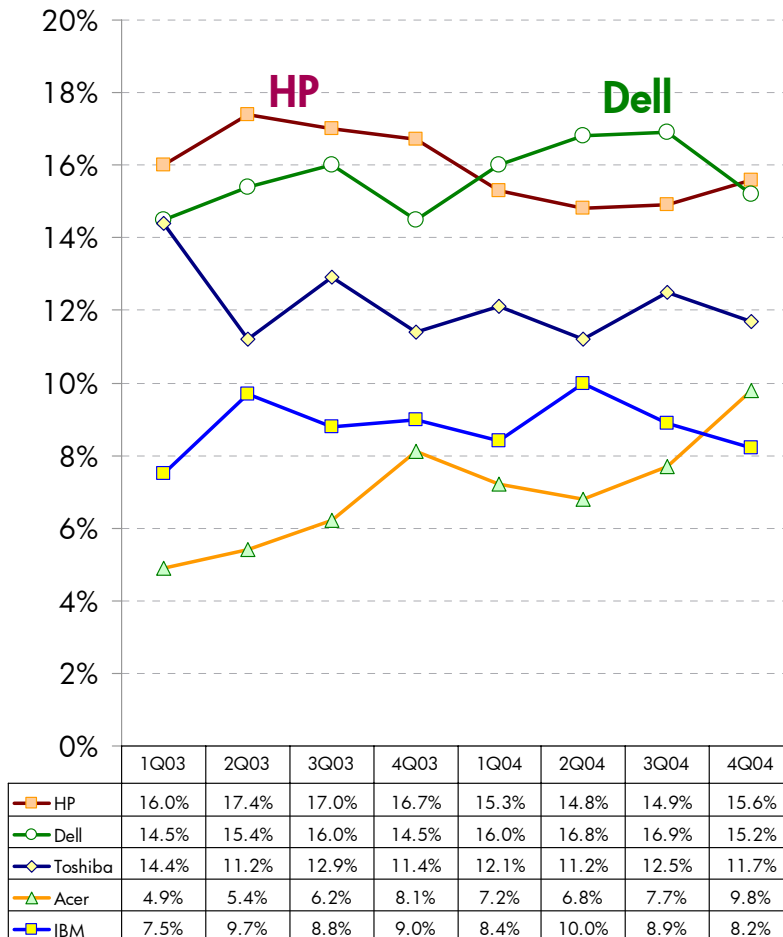


1. IDC Q4 2004 PC Market Share

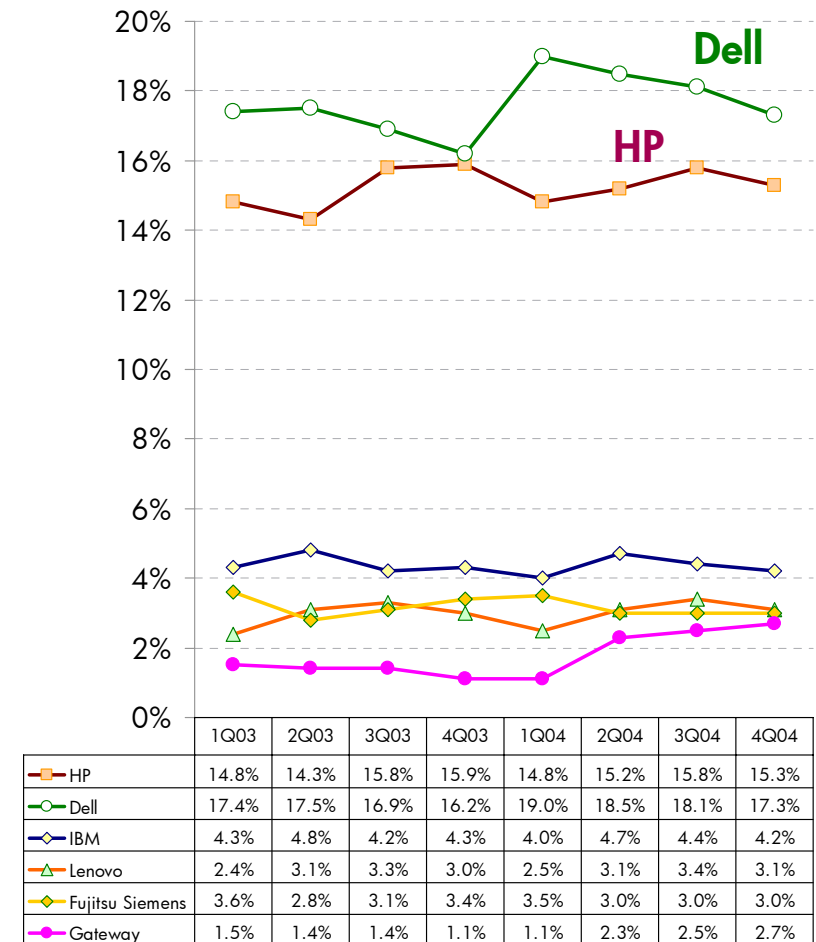
2. Stated on a combined company basis, please refer to supplementary slides for additional information

PSG – notebook & desktop share

WW notebook market share¹



WW desktop market share¹



1. IDC Q4 2004 PC Market Share

PSG – 2005 portfolio

Commercial notebooks, February 2005



- Innovation provides improved security, ease of use, reliability and battery life
- HP Mobile Data Protection System reduces data corruption risk by up to 50 percent by protecting the hard drive from the shock and vibration
- Advanced security features
 - Credential Manager provides users single sign-on capability
 - Smart Card pre-boot authentication
 - DriveLock hard drive protection
 - HP ProtectTools embedded security chip
- HP Fast Charge Technology allows quick recharge
- Intel's Centrino Mobile Technology provides wireless connectivity and improves battery life up to 5 hours



- Full function tablet PC delivering performance and compatibility in an innovative convertible style

Consumer PCs, March 2005

- Innovation through multimedia integration
- Designed to be the digital hub, easily integrating with printers, scanners, digital cameras, televisions, iPod, etc
- New models include:
 - HP Pavilion ze2000 Notebook PC (\$699+)
 - HP Pavilion d4000 Series Desktop PC
 - HP Pavilion a1000 Series Desktop PC
 - HP Media Center m7000 Series Photosmart PC
- Strong media management functionality
 - memory card slots & 1394 support
 - enhanced software
 - no boot DVD play
 - removable hard-drives
 - high speed video
- Integrated Apple iPod from HP dock
- Bundled with multimedia HP Wireless Keyboard
- Pre-installed Norton Internet Security 2005 and Intermute's SpySubtract Pro to safeguard from Spyware and viruses
- Optional HP Personal Media Drive available with up to 400GB of capacity, providing a fast and easy way to store, share and manage videos, photos, and music

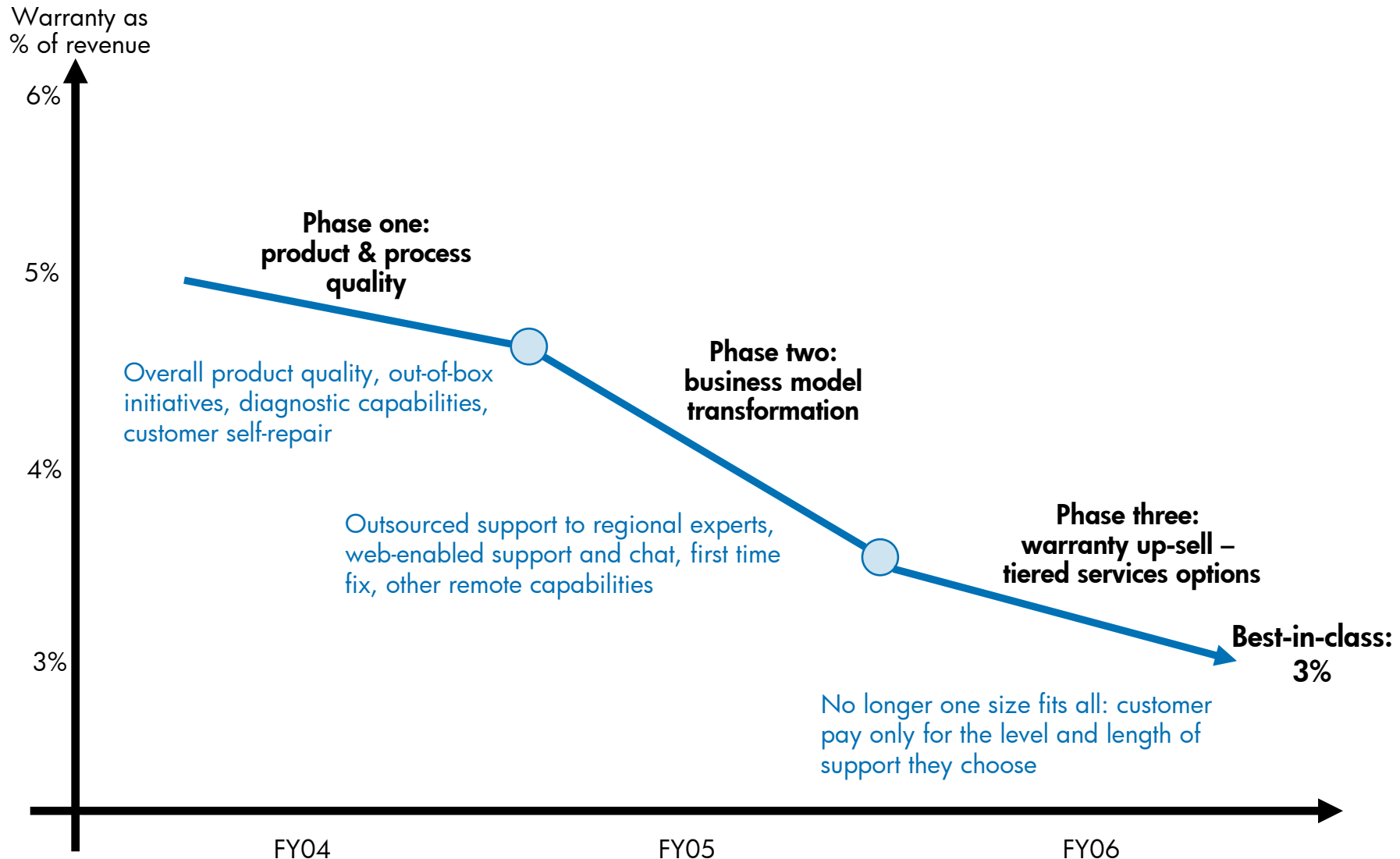


PSG P&L opportunity vs. best-in-class¹

Gross margin %	~ 300 pts.	<ul style="list-style-type: none">• Direct sales• Up-sell/attach rates• Product mix• Supply chain/warranty
OPEX %	~ 100 pts.	<ul style="list-style-type: none">• Field selling costs/hunter-farmer• Disciplined R&D
Op. margin %	~ 400 pts.	

¹ Based on internal estimates

PSG warranty improvement

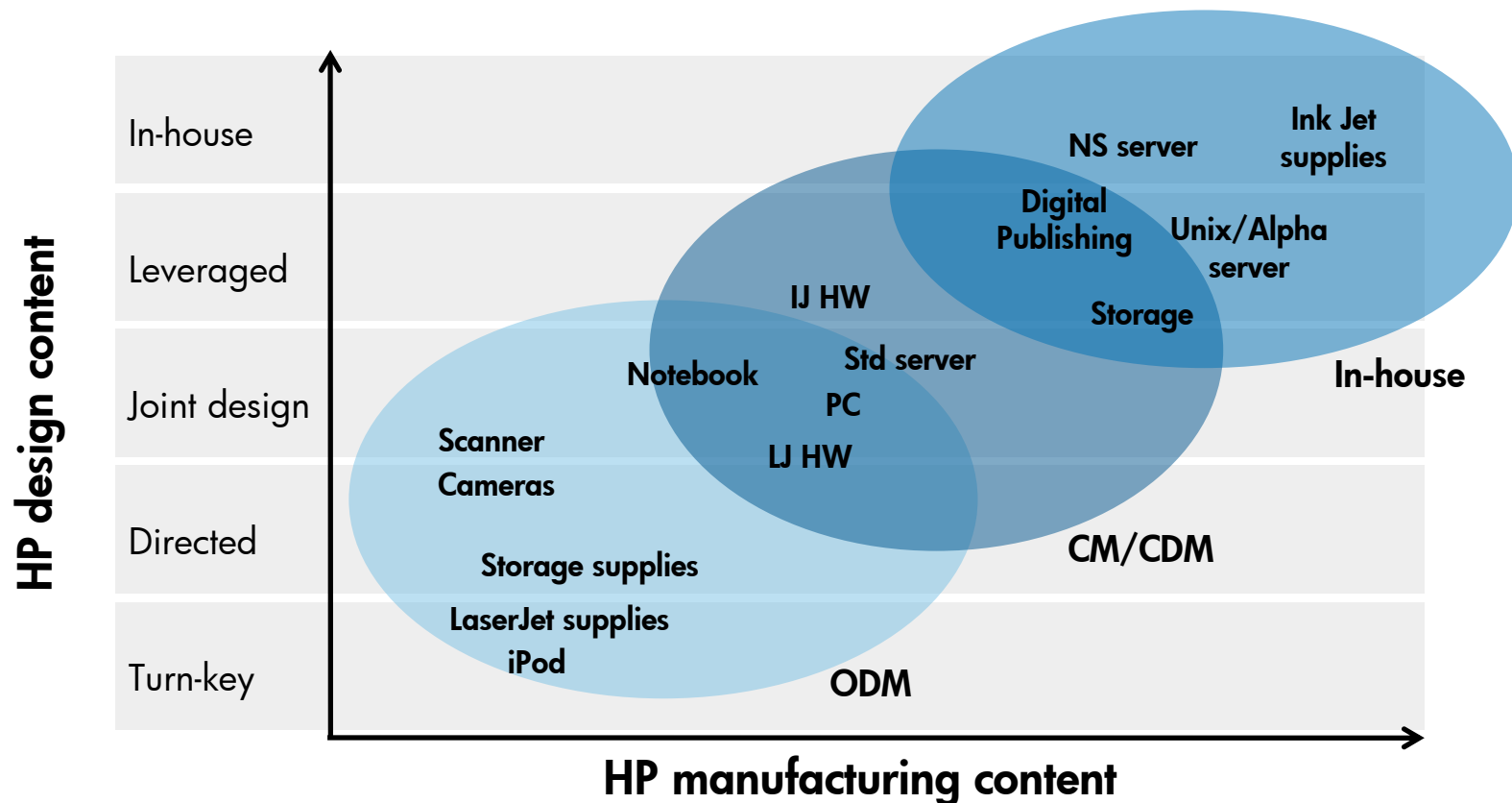


PSG upsell portfolio


Category	Examples	Direct	Indirect
Displays	Branded displays	✓	✓
HP accessories	Docking stations, batteries	✓	✓
3 rd party options	Mice, keyboards, carrying cases, cables	✓	
Warranty extensions	Extensions beyond standard warranty	✓	✓
Freight & logistics	Freight expedites, coordinated or special logistic services	✓	
Customization services	Image loading, asset tagging	✓	
ISPs/portals	ISP bounties, portal partnerships	✓	✓
Software/services	Office apps, security software	✓	
Lifecycle services	PC recycling, Installation, data transfer	✓	

Manufacturing models

1. Using a range of design models from OEM to internal
2. Matching the strategic intent of a particular product at a particular time
3. Focusing internal innovation where it matters most to our customers



Product and part simplification

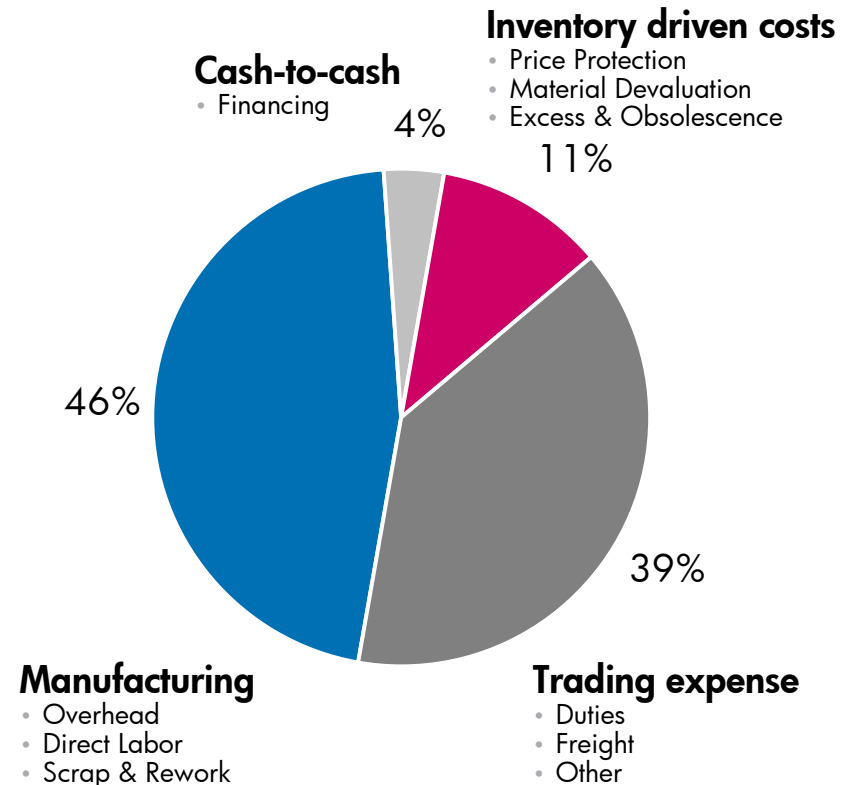
SKU rationalization	Business PC	48% reduction in base units and HP branded options 10-40% improvement in category service level 2 day OCT reduction
	Enterprise systems	19% SKU reduction 34% increase in SKU productivity (revenue per SKU)
Parts & options simplification	Inkjet personal printers	<div> <div> 7 control panels 5 power supplies 24 trays 12 clean out </div>  <div> 3 control panels 2 power supplies 12 trays 1 clean out </div> </div> \$130M saving opportunity

45 projects in the area of design for Supply Chain

PSG supply chain

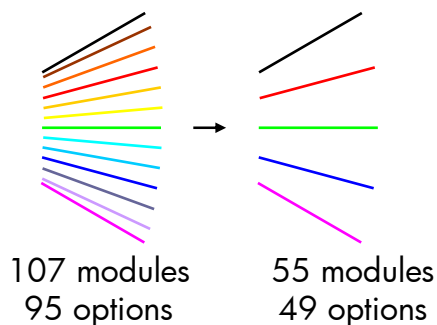
- Halved final assembly manufacturing sites since 2000
- 14% reduction in commercial Supply Chain cost/box
- Moved volume to lower cost locations
 - Notebooks from Taiwan to China
 - Europe volume from Scotland/France to Czech and Hungary
 - More Americas volume to Mexico (closed Swedesboro, NJ and Omaha factories)
 - Sold certain HP owned LA and European facilities
- Achieved variable cost production model with over 80% outsourced final assembly (up from 50% in 2000)
- Reduced the number of suppliers to consolidate spend
- Spend over \$1B per annum with several suppliers

Supply Chain cost categories



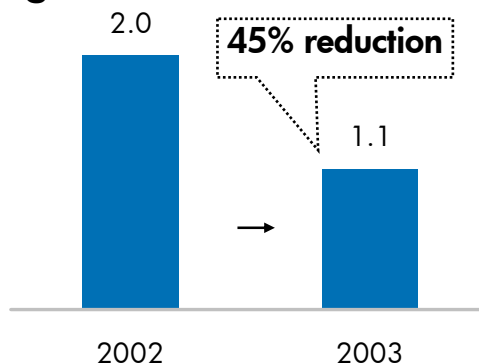
SC optimization examples

Variety control



42% less inventory and better availability for **bPC**; \$25M

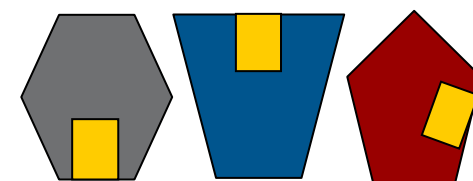
Logistics enhancement



Reducing physical size saves >\$1/unit in **IPG PCC** costs

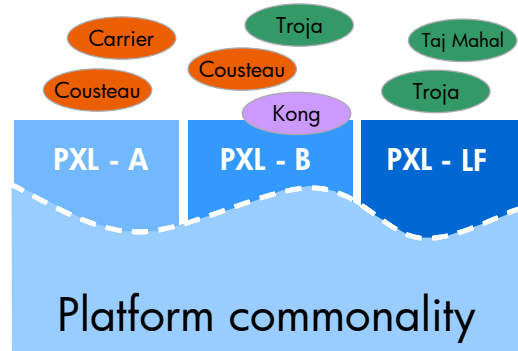
Commonality

Move from ~12 rail kits to 5 at **ESS**



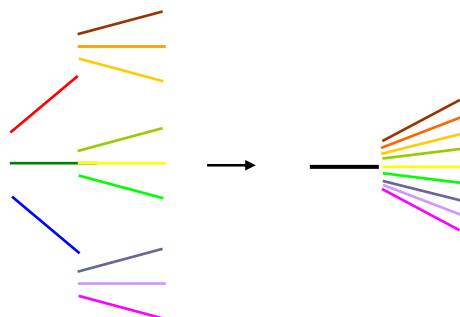
\$32M annual material cost reduction

Part and platform re-use



PX Lite saves 38% of development costs; \$35M

Postponement



> 98% fill rate with ~2 WOS
FGI at **EMEA LaserJet**

Environment & take-back



InkJet supplies
recycling increased 25%

HP digital entertainment story

