

BUSINESS OUTLOOK

GLOBAL ELECTRONICS

INDUSTRY

WALT CUSTER
CUSTER CONSULTING GROUP
www.custerconsulting.com
February 2005

Historical Review

2000 - "Bubble demand", double ordering & inventory building

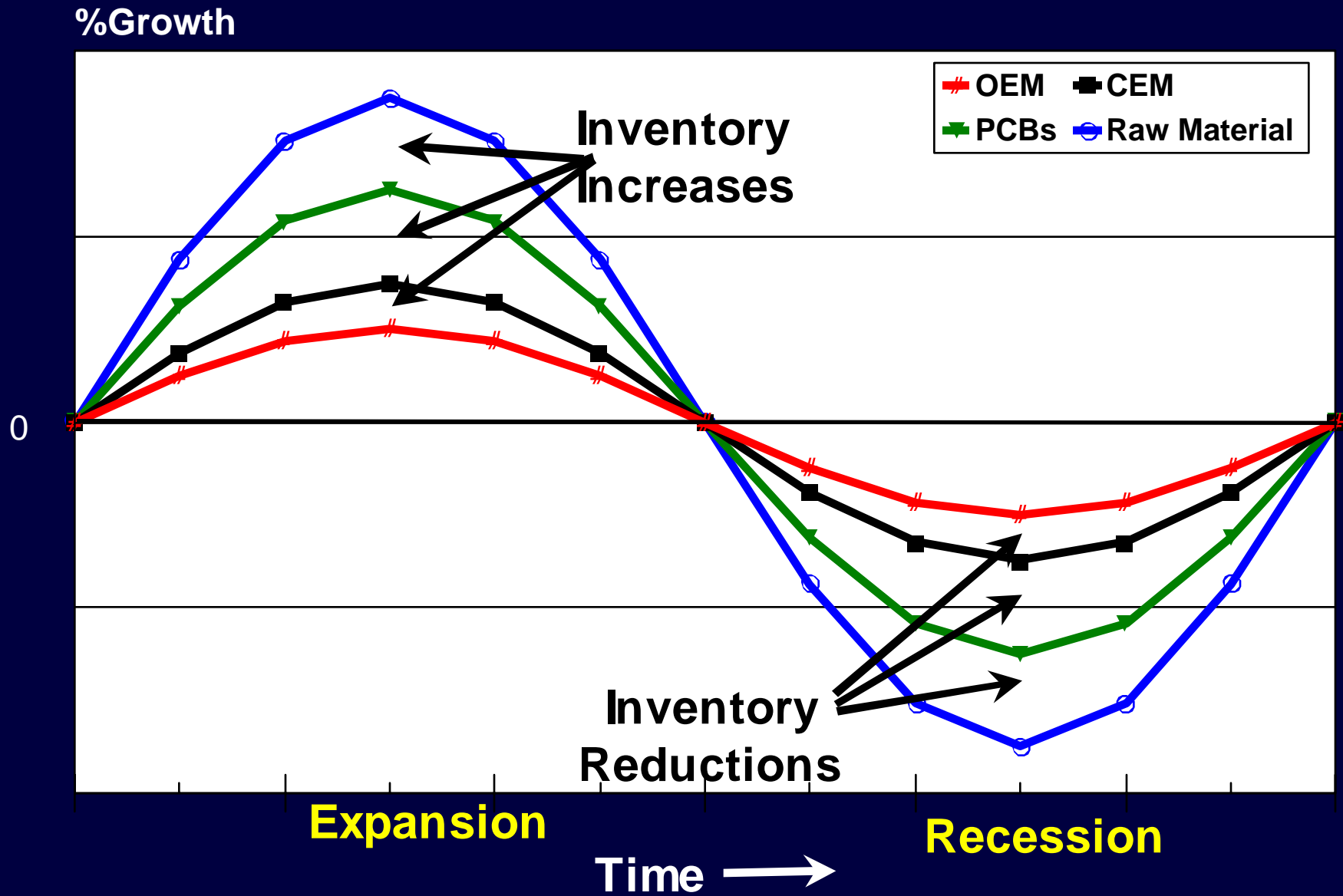
2001 - Dot.com & telecom crash, sharply lower demand, inventory reductions, Sept 11

2002 - declining demand, shift to Asia, N. American & European PCB shutdowns & massive China buildup, overcapacity & price degradation throughout supply chain; strong US\$ vs euro & GBP

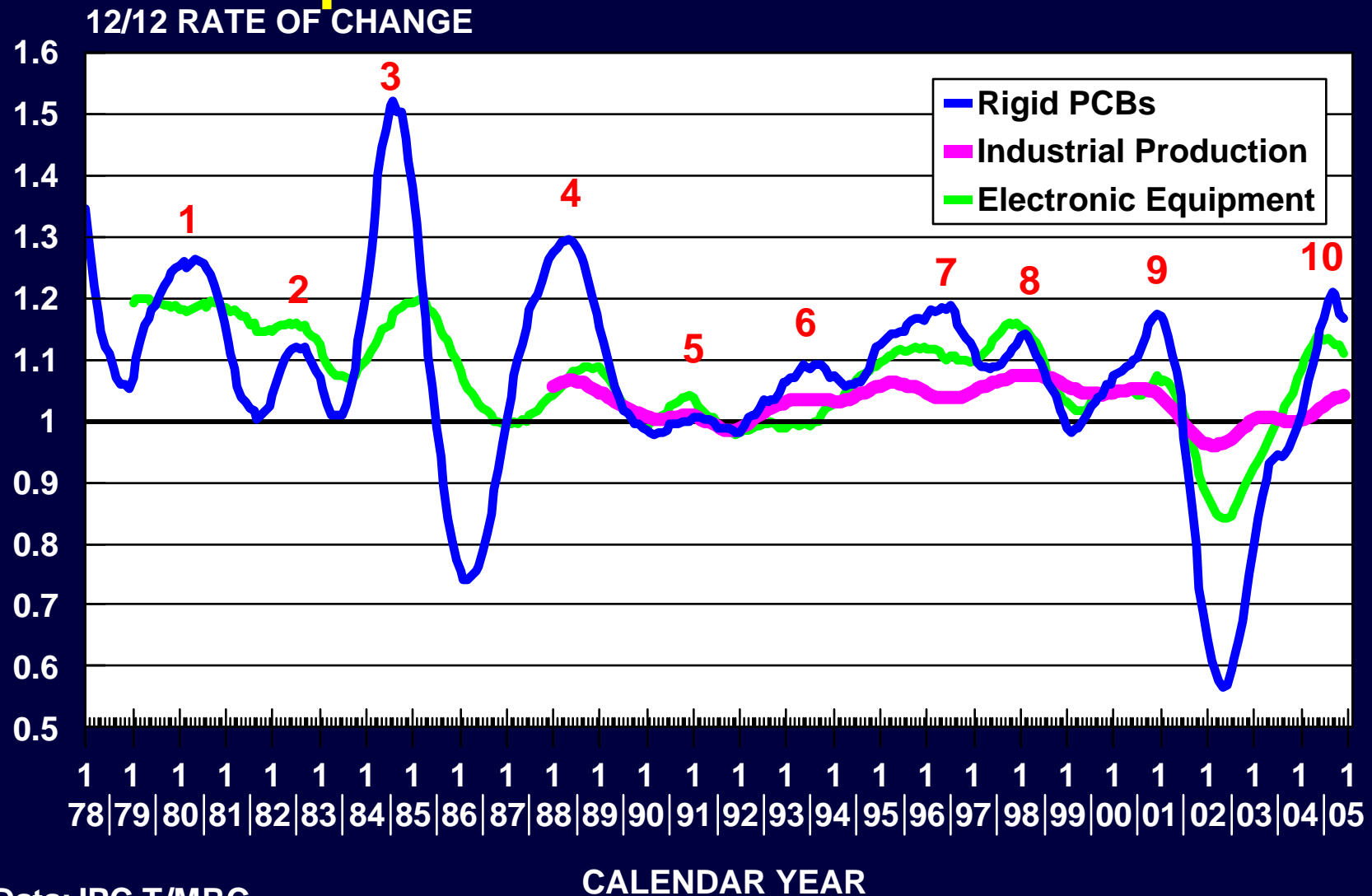
2003 - Initial modest improvements slowed by war worries & SARS; recovery accelerated in late 2003; weak US\$; Communications orders drop in Nov/Dec

2004 - Strong 1Q'04 - with over-ordering & inventory building; Downward N American "correction" in rest of 2004; SE Asia continues to grow; Japan slows

BUSINESS CYCLE Supply Chain Effect



N American PCB vs US Electronic Equipment Shipments & Industrial Production

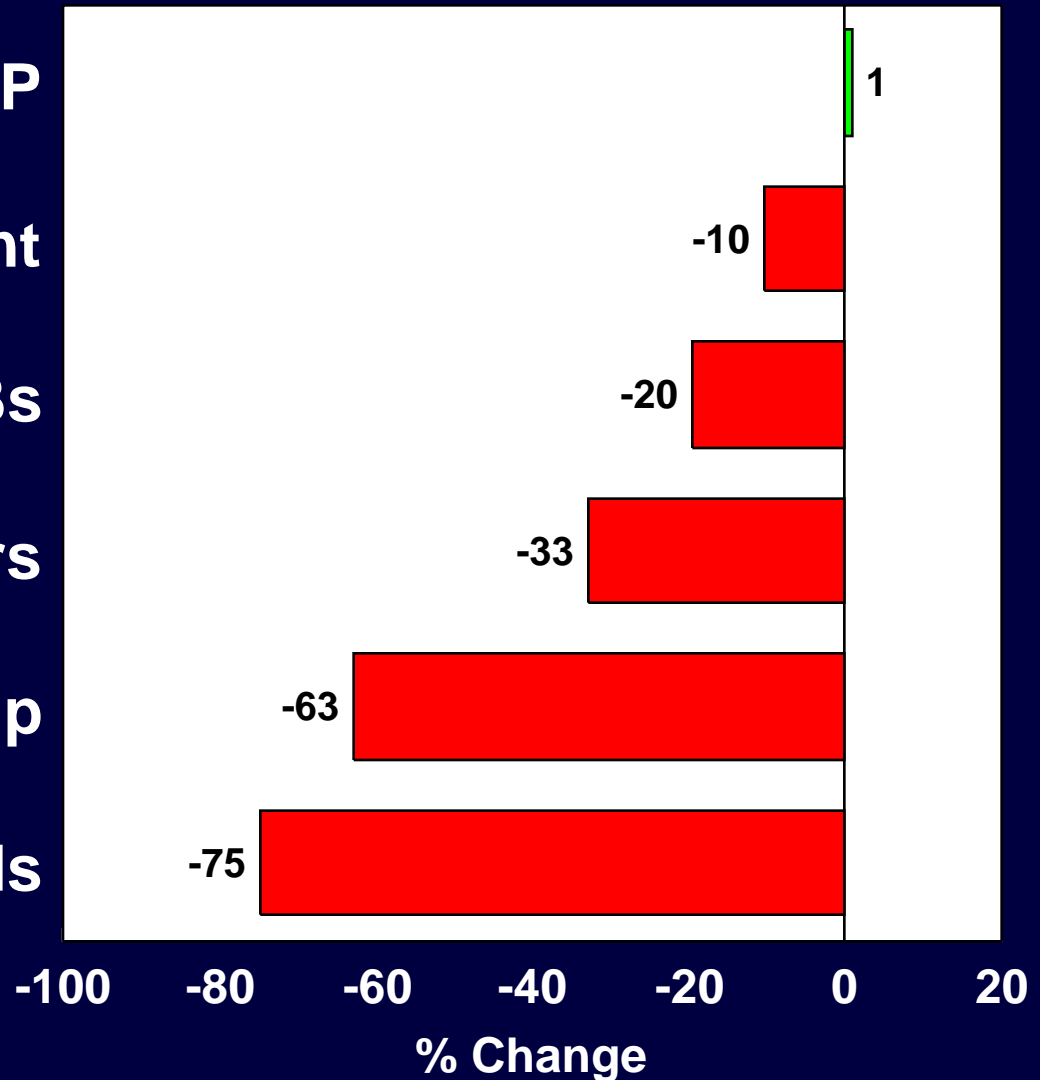


Data: IPC T/MRC

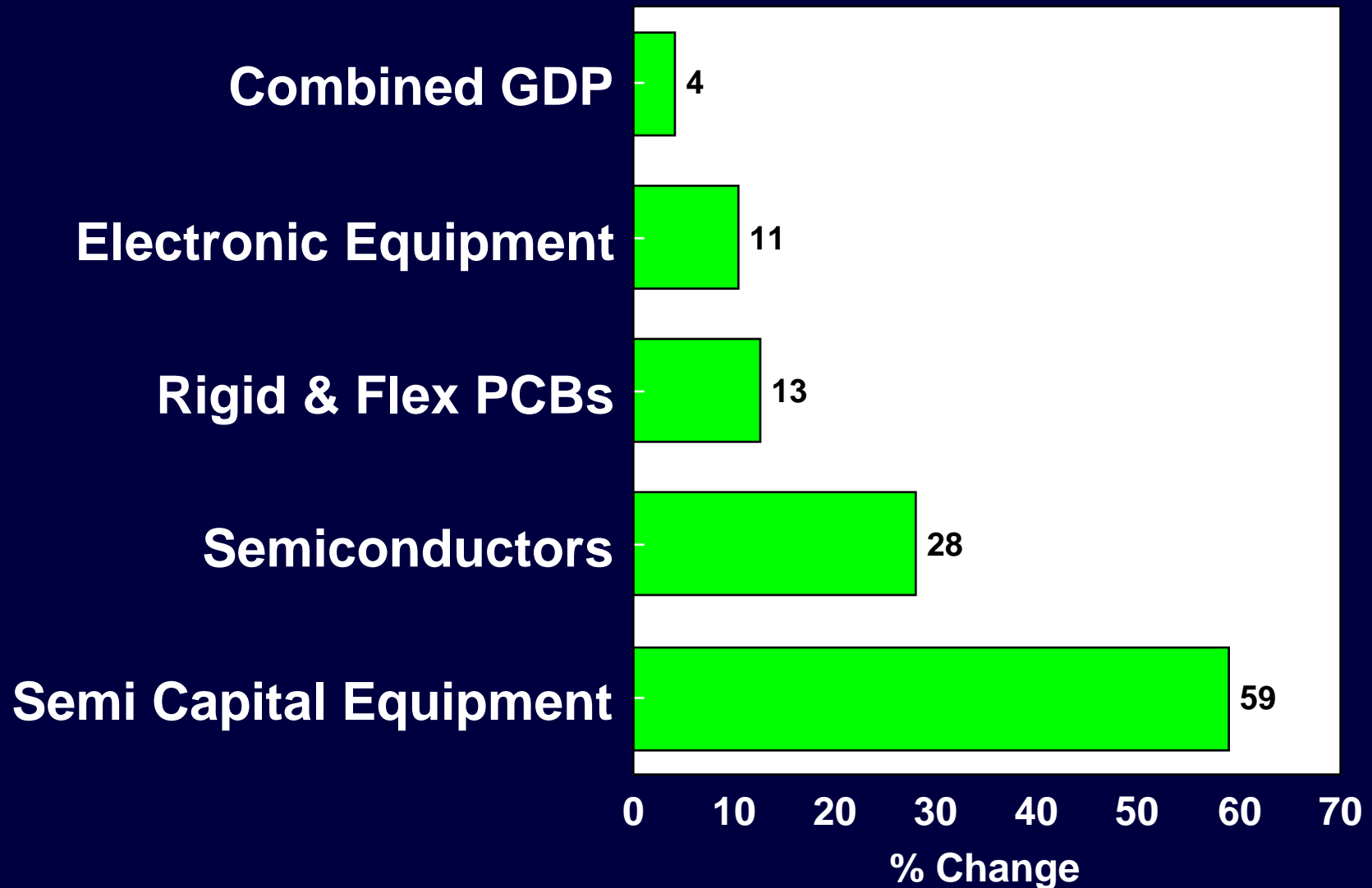
www.federalreserve.gov/releases/g17/table1_2.htm

Global Impact - 2001 vs 2000

Combined GDP
Electronic Equipment
Rigid & Flex PCBs
Semiconductors
Semi Capital Equip
DRAMs

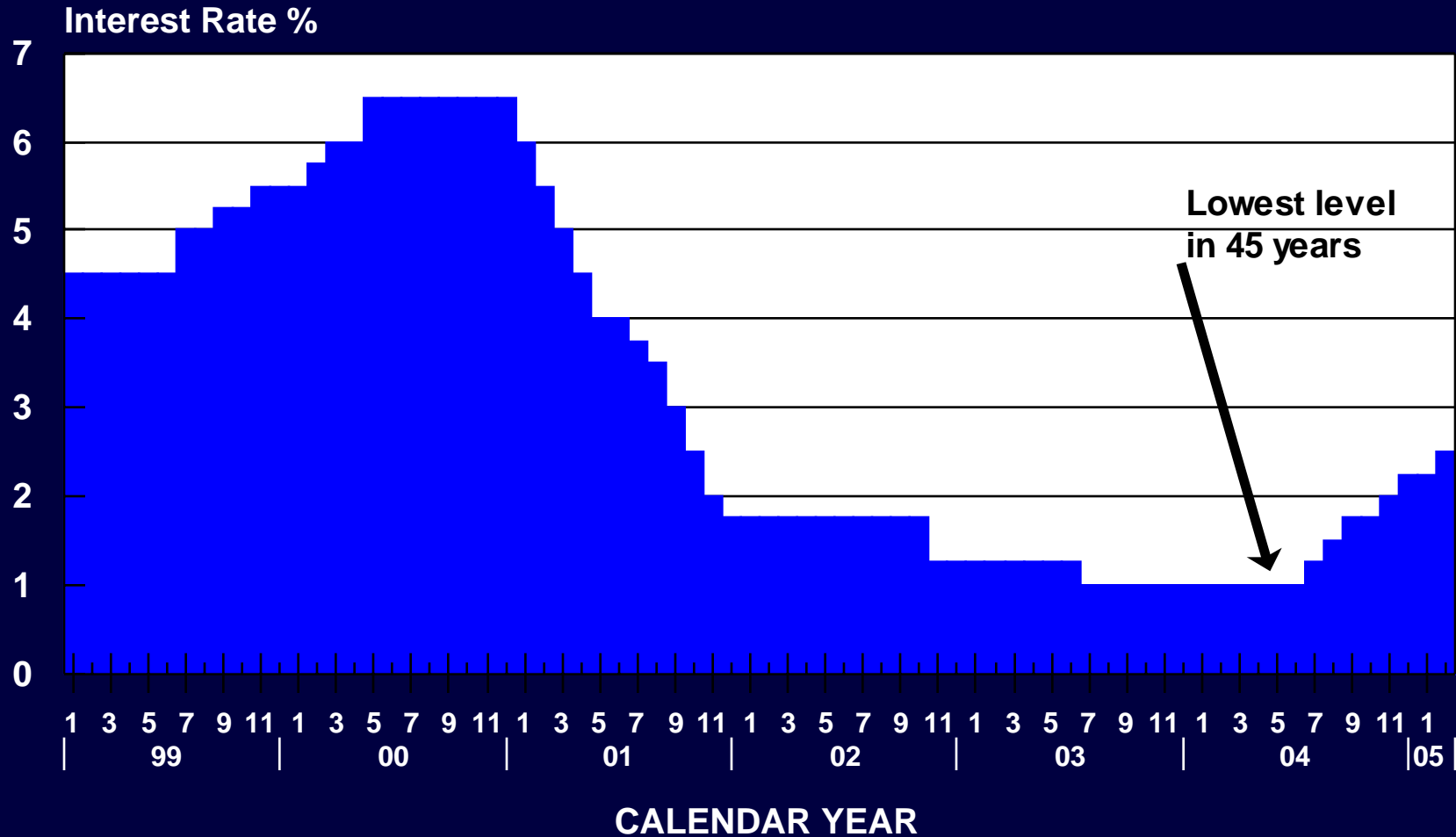


Global Impact - 2004 vs 2003

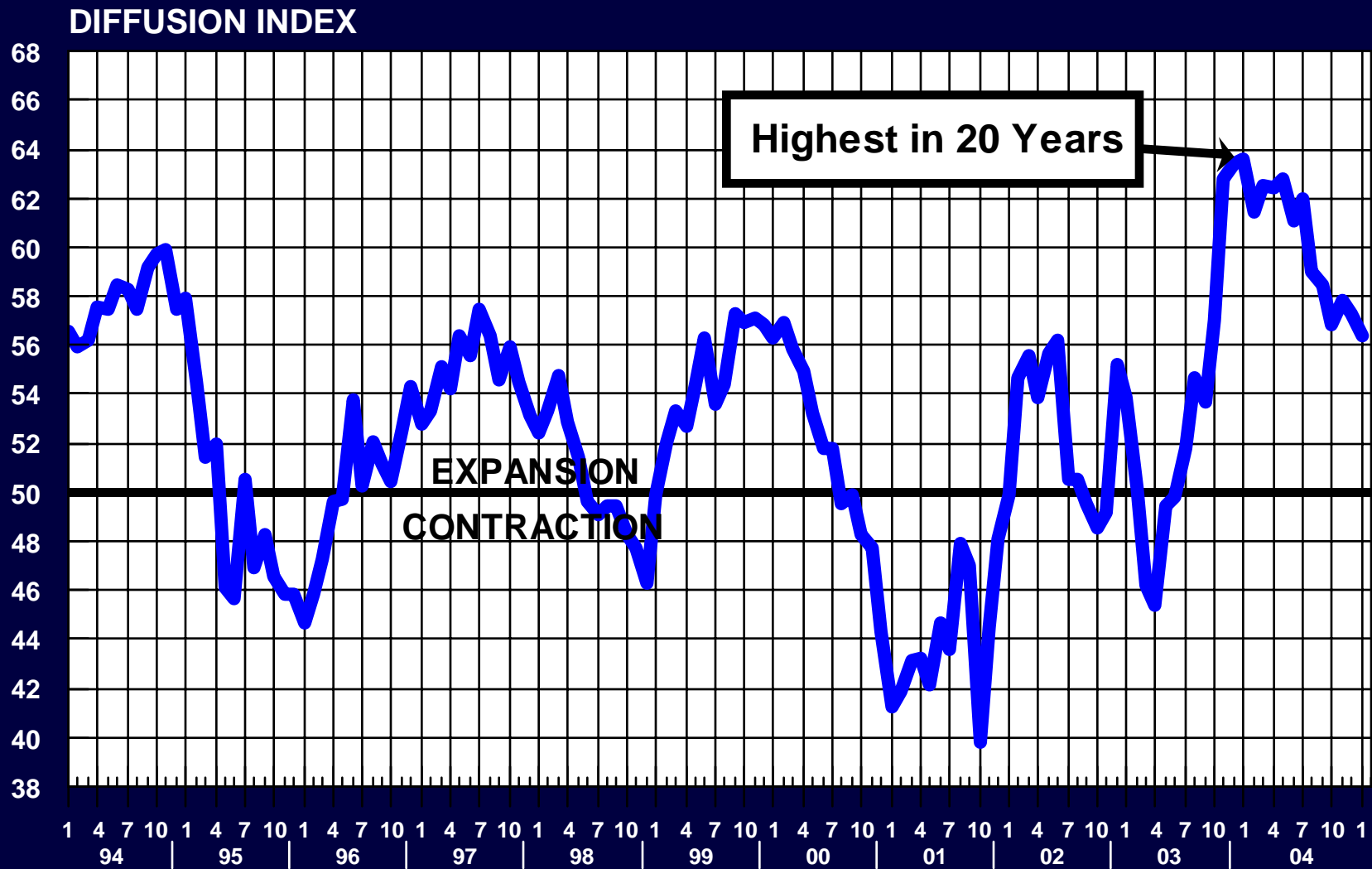


Interest Rates & Foreign Exchange Rates

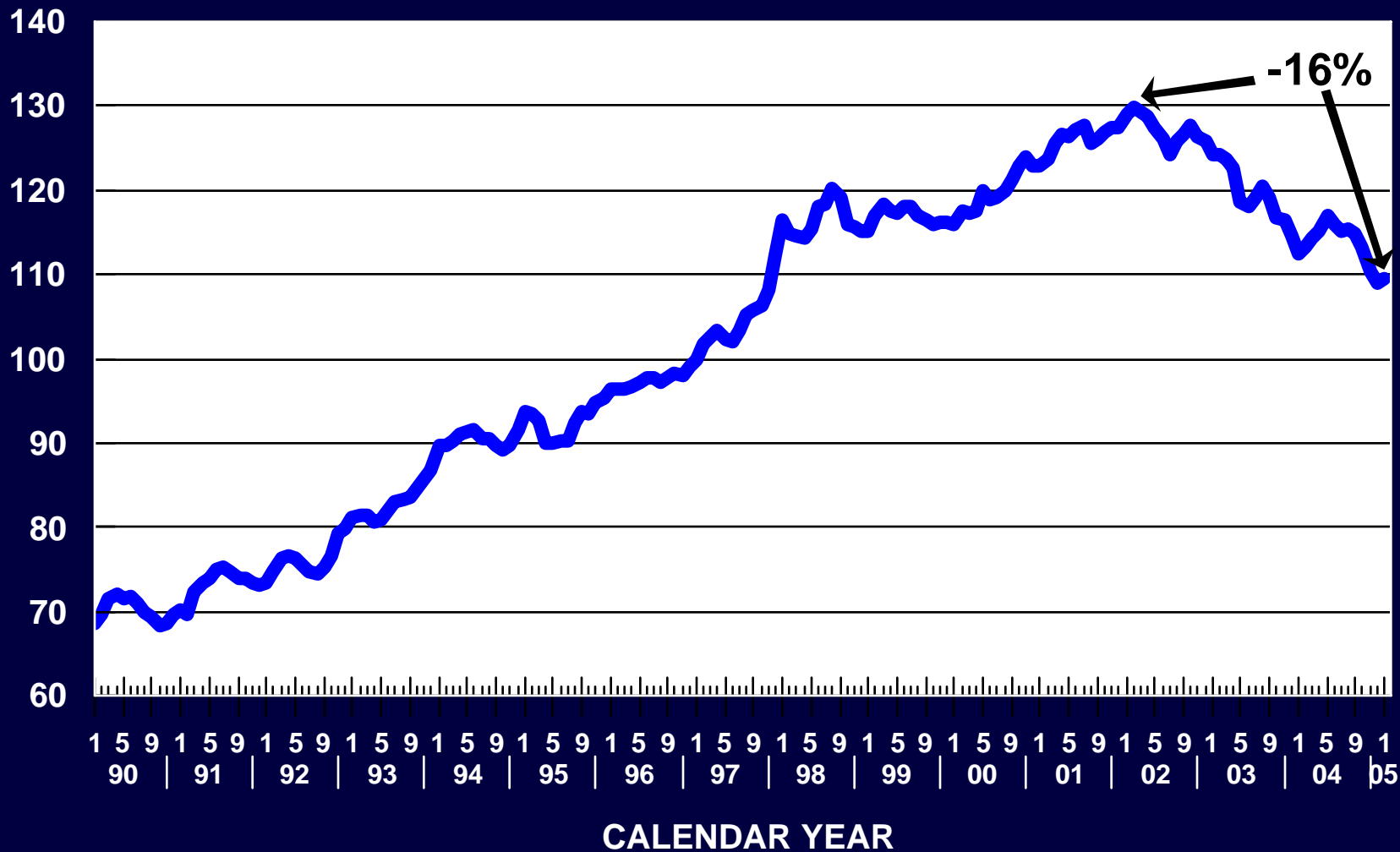
U.S. FEDERAL FUNDS RATE



U.S. "Purchasing Managers" Index



Trade-Weighted Exchange Value of U.S. Dollar vs of a broad group of major U.S. trading partners



<http://research.stlouisfed.org/fred2/series/TWEXBMTH/15>

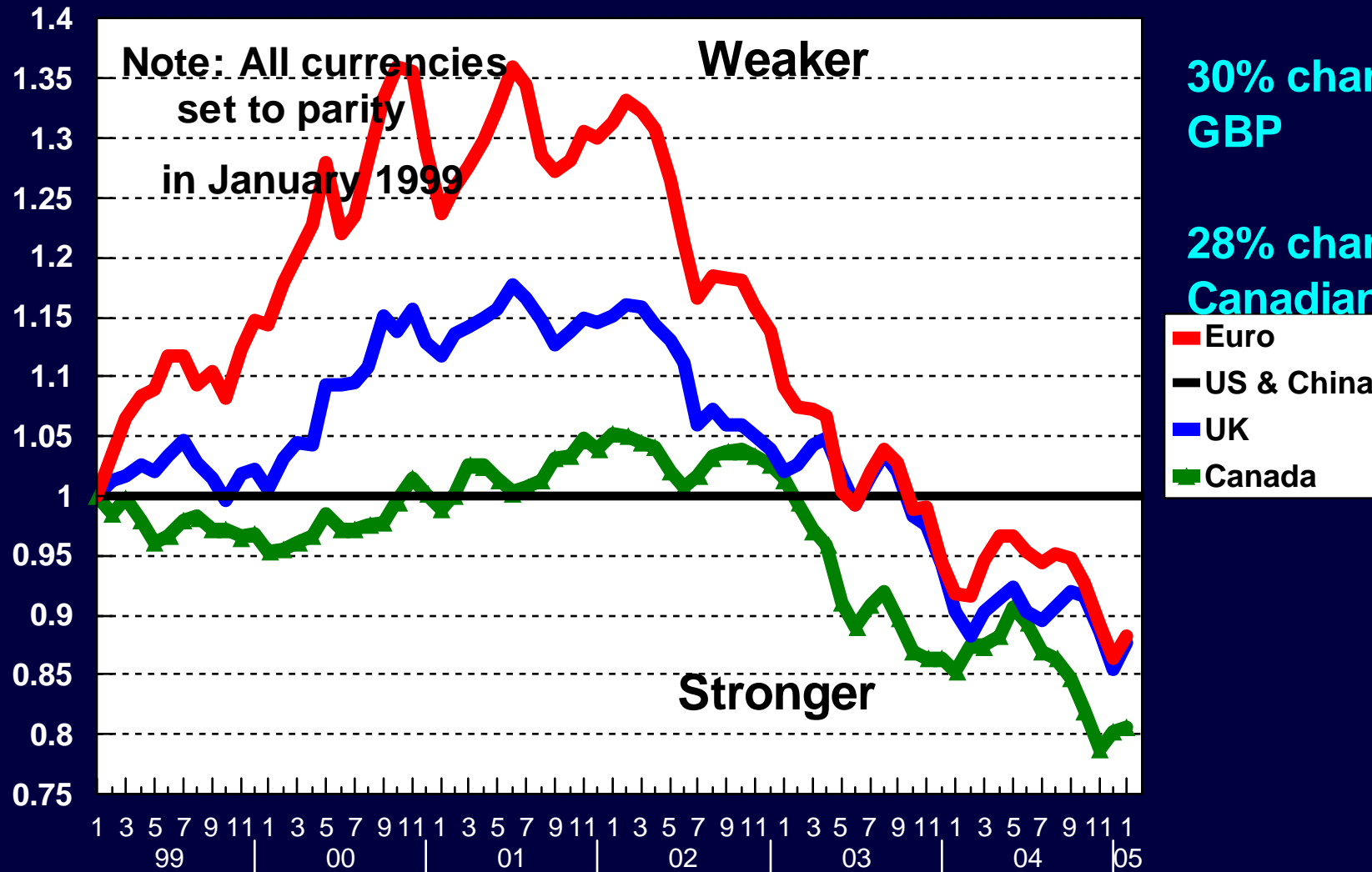
Key European Exchange Rates vs US\$ & China Yuan

1/99 = 1.00

48% change in euro

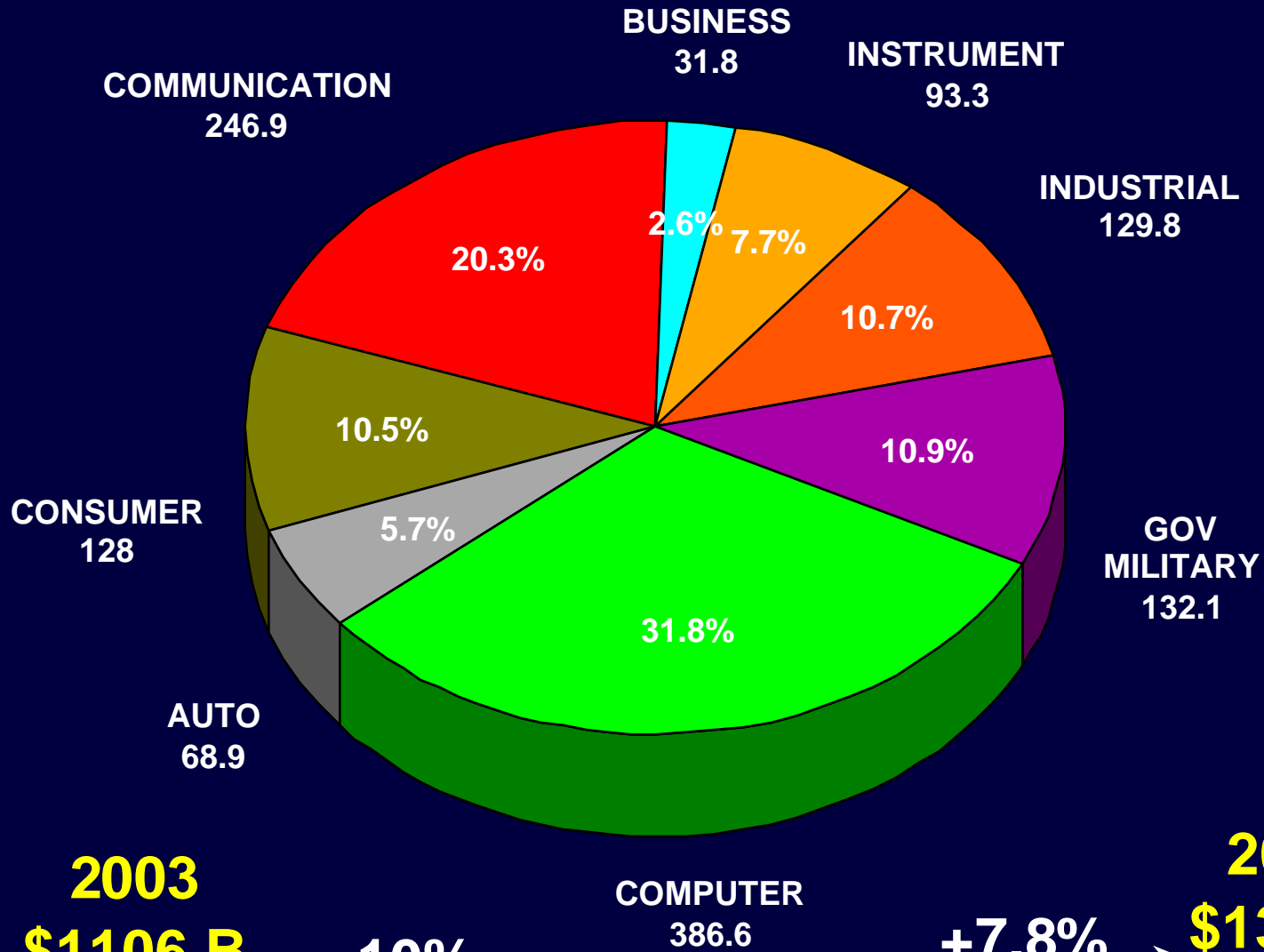
30% change in GBP

28% change in Canadian \$



Electronic Equipment

World Electronic Equipment by Type 2004



2003
\$1106 B

10%

COMPUTER
386.6

+7.8%

2005
\$1312B

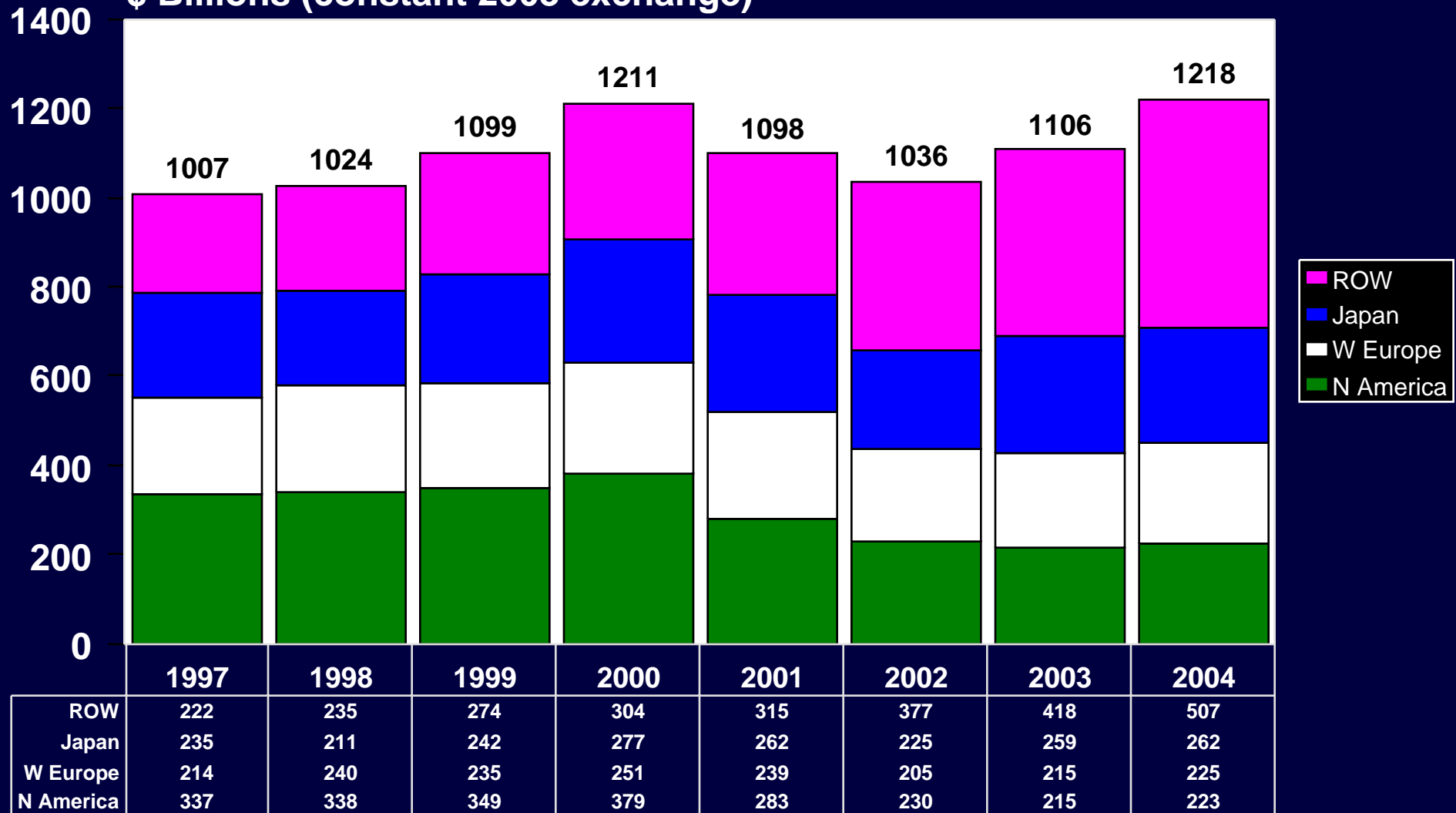
Electronic Outlook 9/04

Total Production: \$1218 Billion

World Electronic Equipment Production by Area

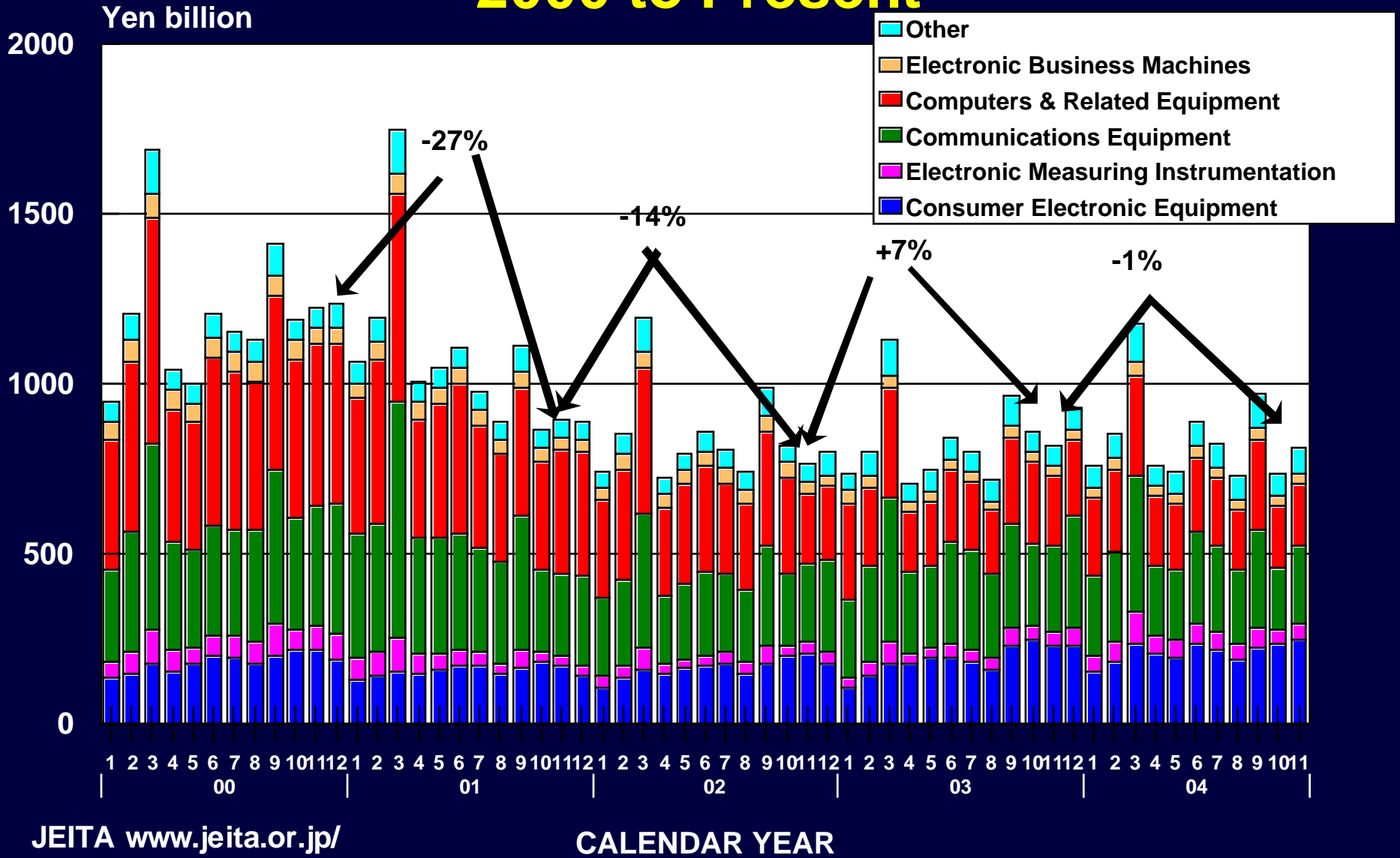
Electronic Assembly

\$ Billions (constant 2003 exchange)



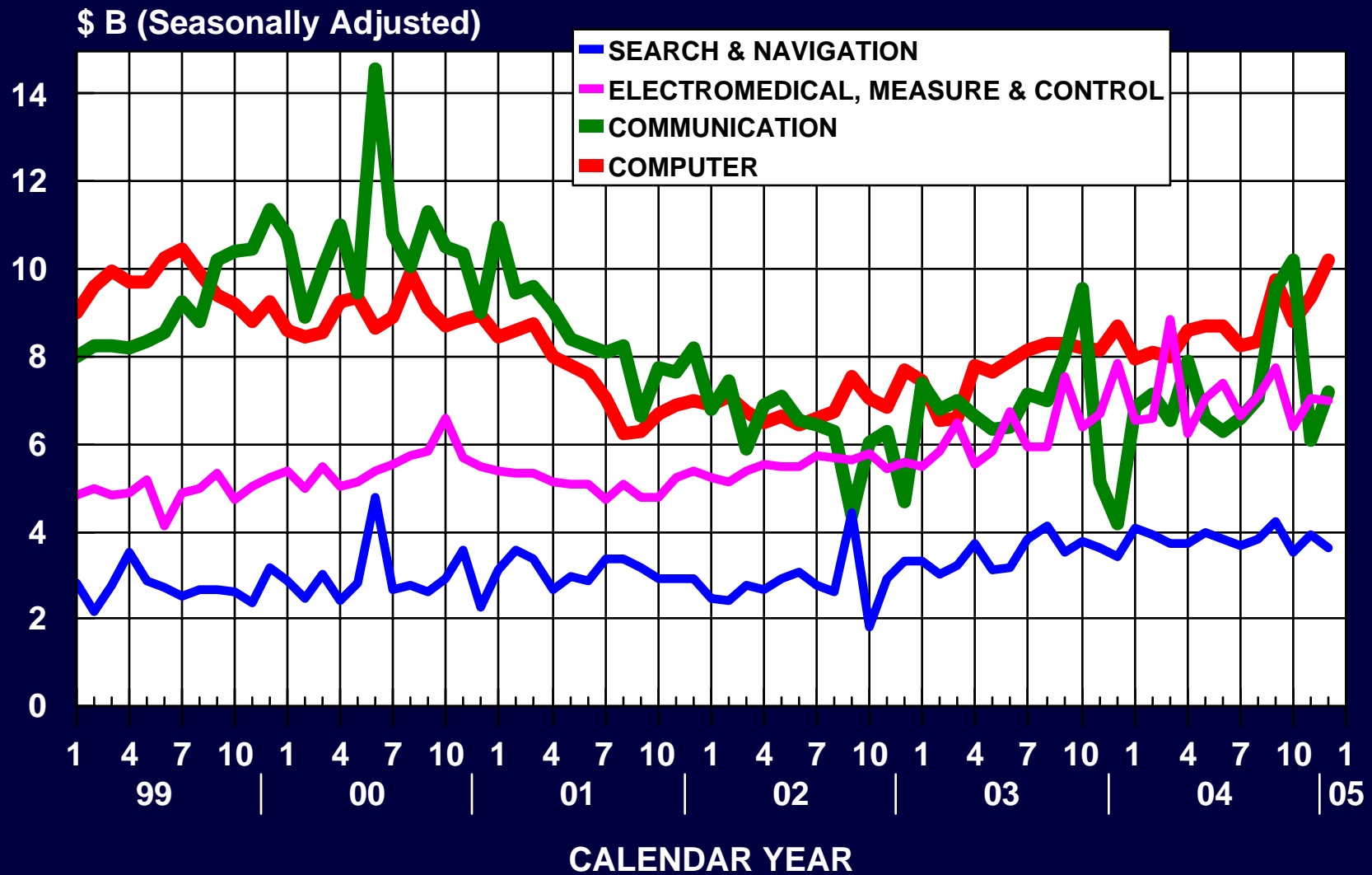
Electronic Outlook Corp total with area shares based upon SIA chip shipments

Japan Electronic Equipment Production 2000 to Present



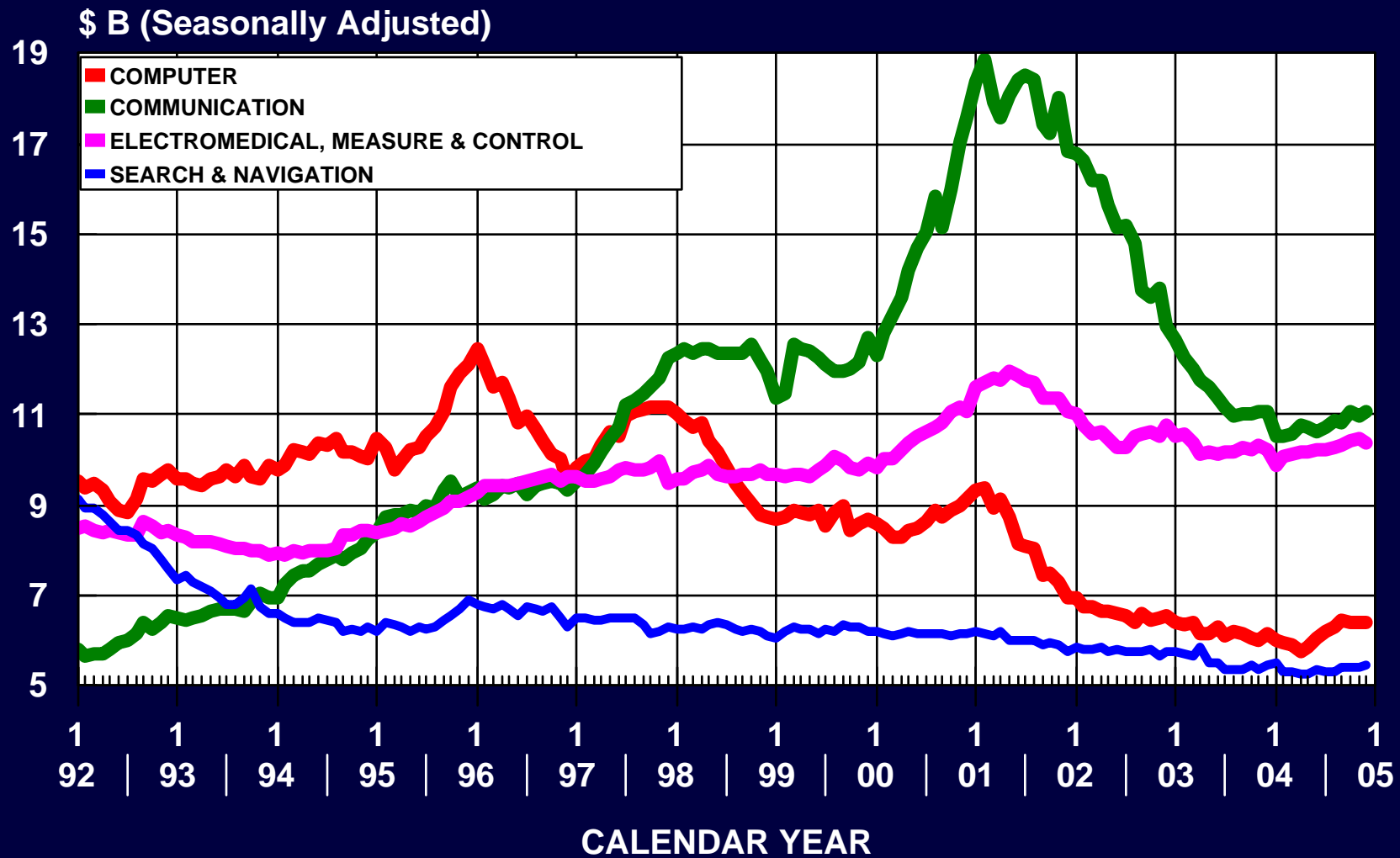
US Electronic Equipment Orders

Monthly Data



US Electronic Equipment Inventories

Monthly Data



<http://www.census.gov/indicator/www/m3/>

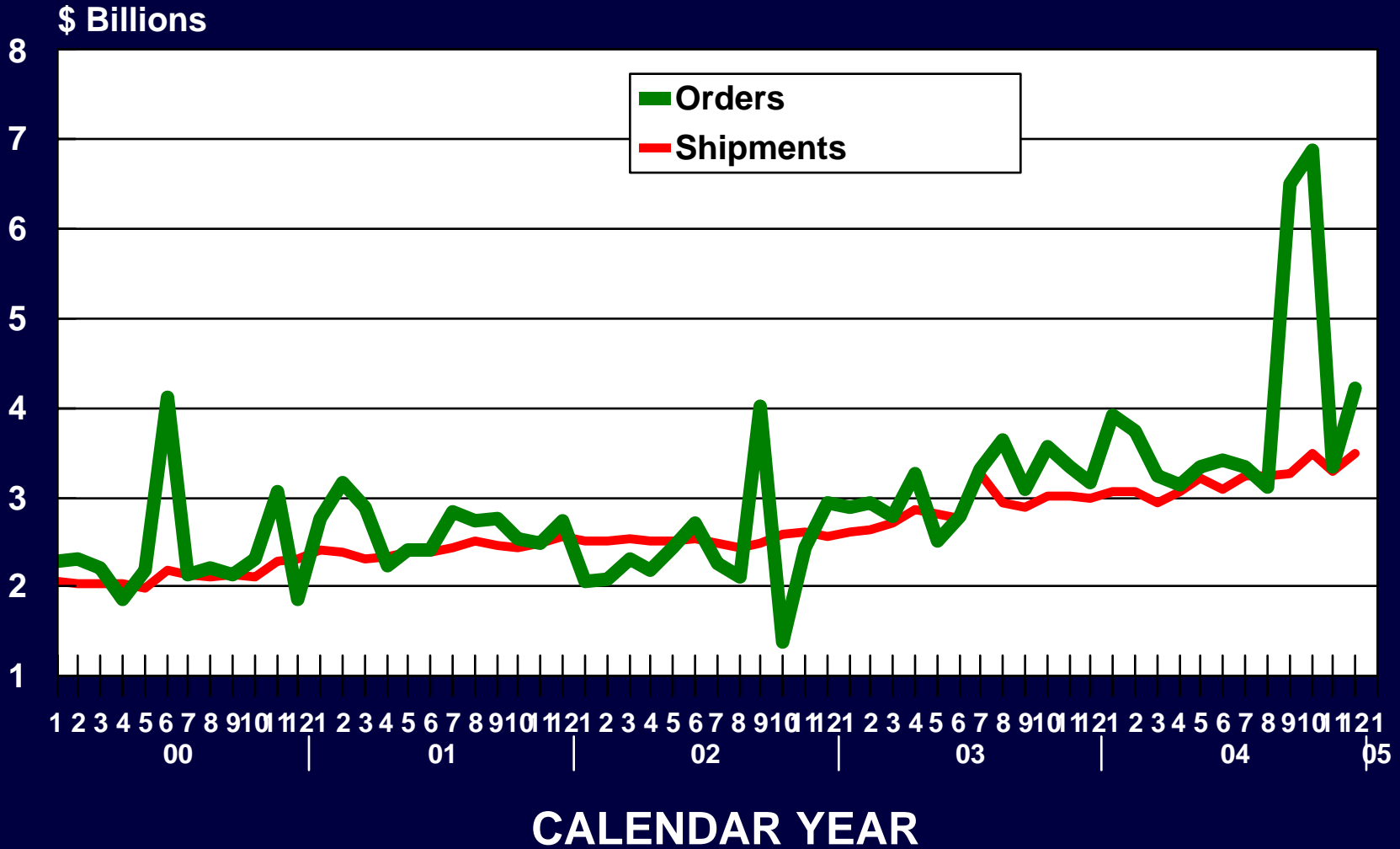
Value of U.S. "Computers & Electronic Products" Inventories by Stage of Fabrication



Government & Military Electronics

U.S. Military Electronics Orders & Shipments

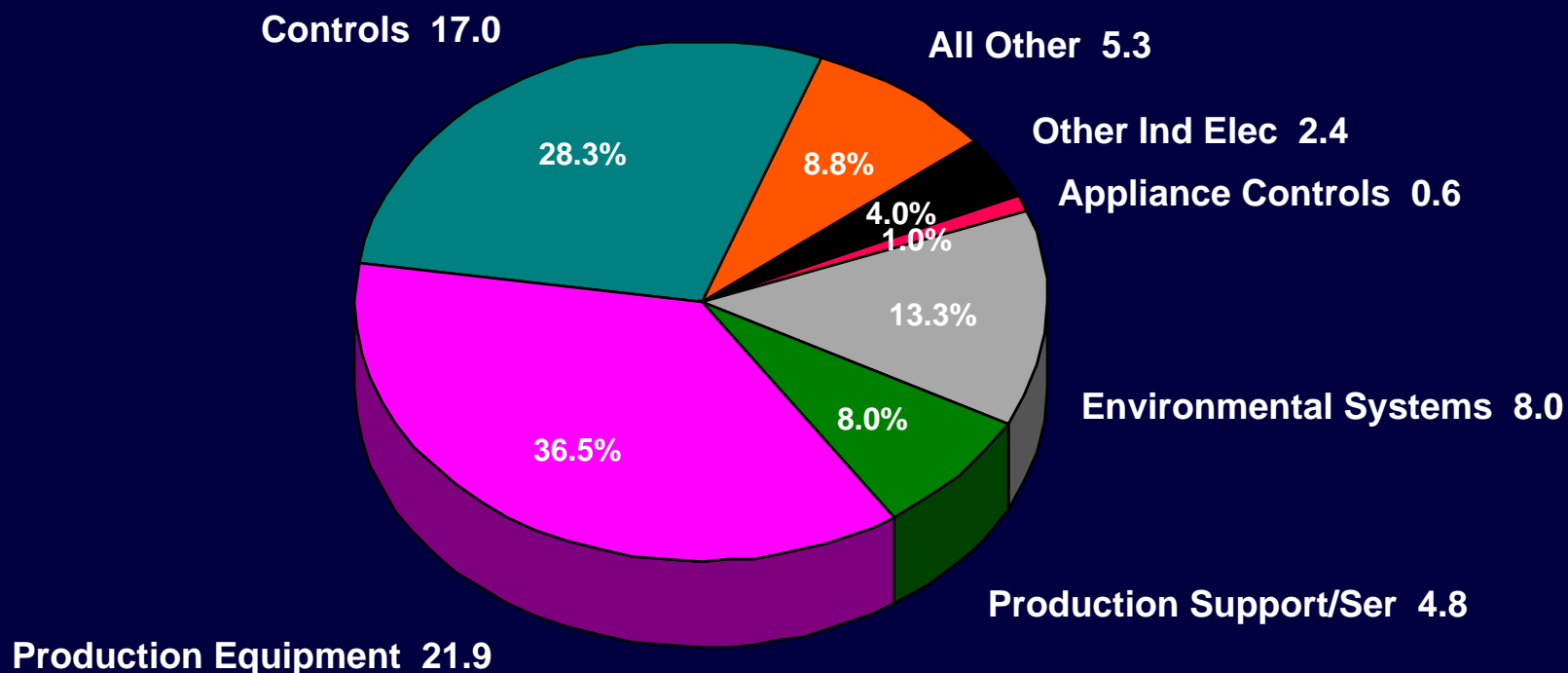
Defense Search & Navigation and Communications Equipment



Instruments & Control Equipment

INDUSTRIAL ELECTRONICS PRODUCTION

U.S. - 2004



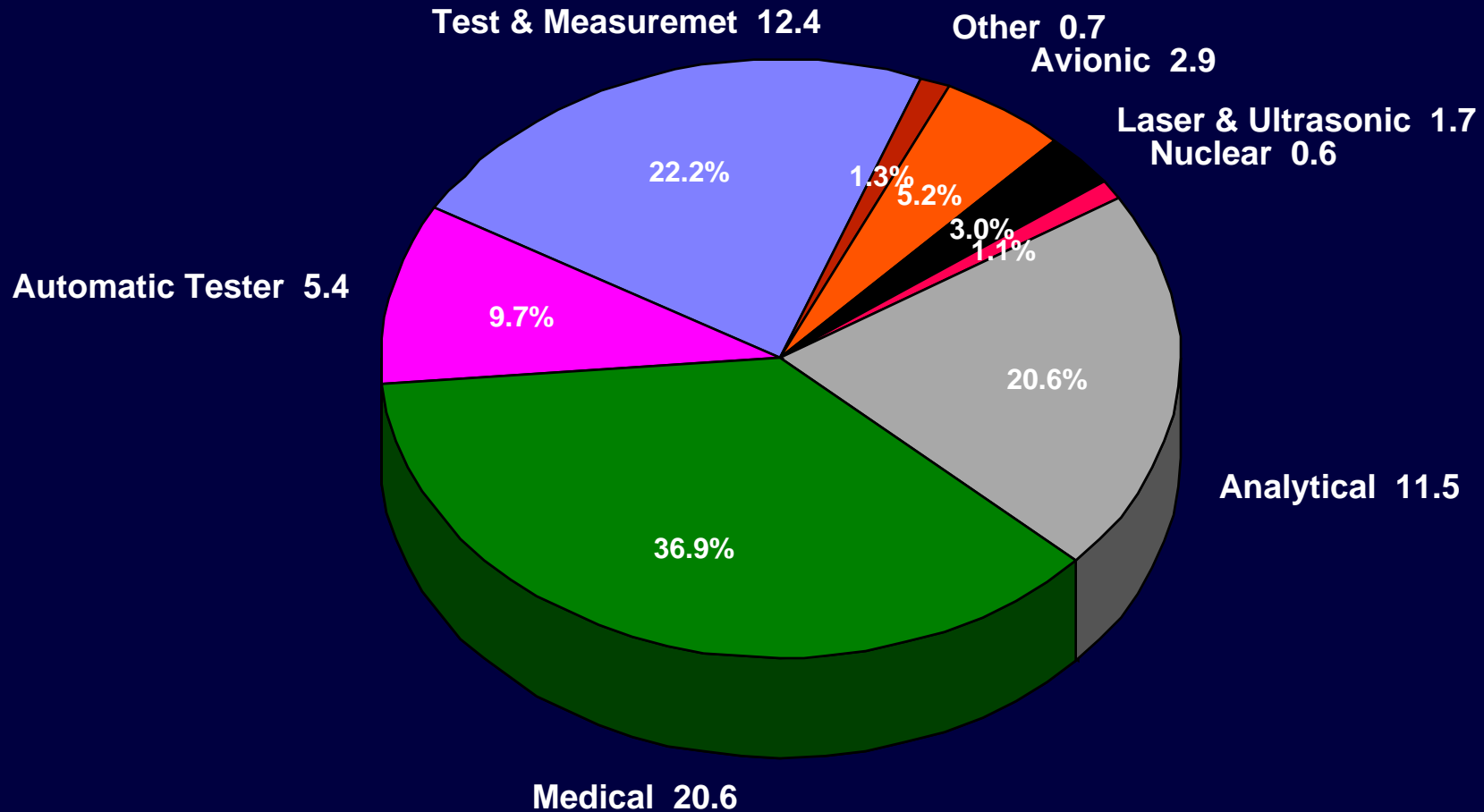
TOTAL: \$60.0 Billion

Electronic Outlook 9/2004

Note: Similar data available for other electronic equipment sectors

INSTRUMENTATION EQUIPMENT PRODUCTION

U.S. - 2004



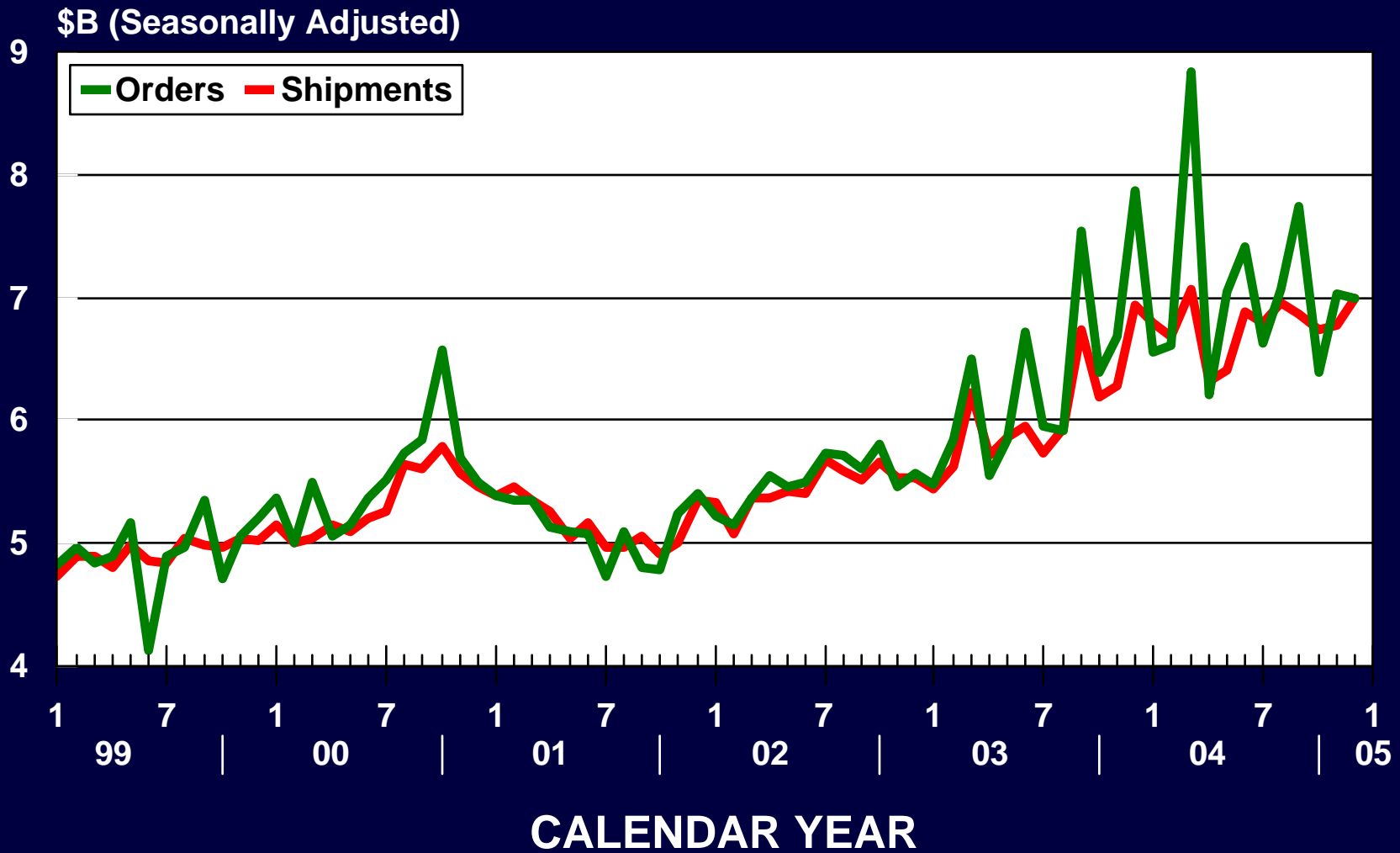
TOTAL: \$56.2 Billion

Electronic Outlook 9/2004

Note: Similar data available for other electronic equipment sectors

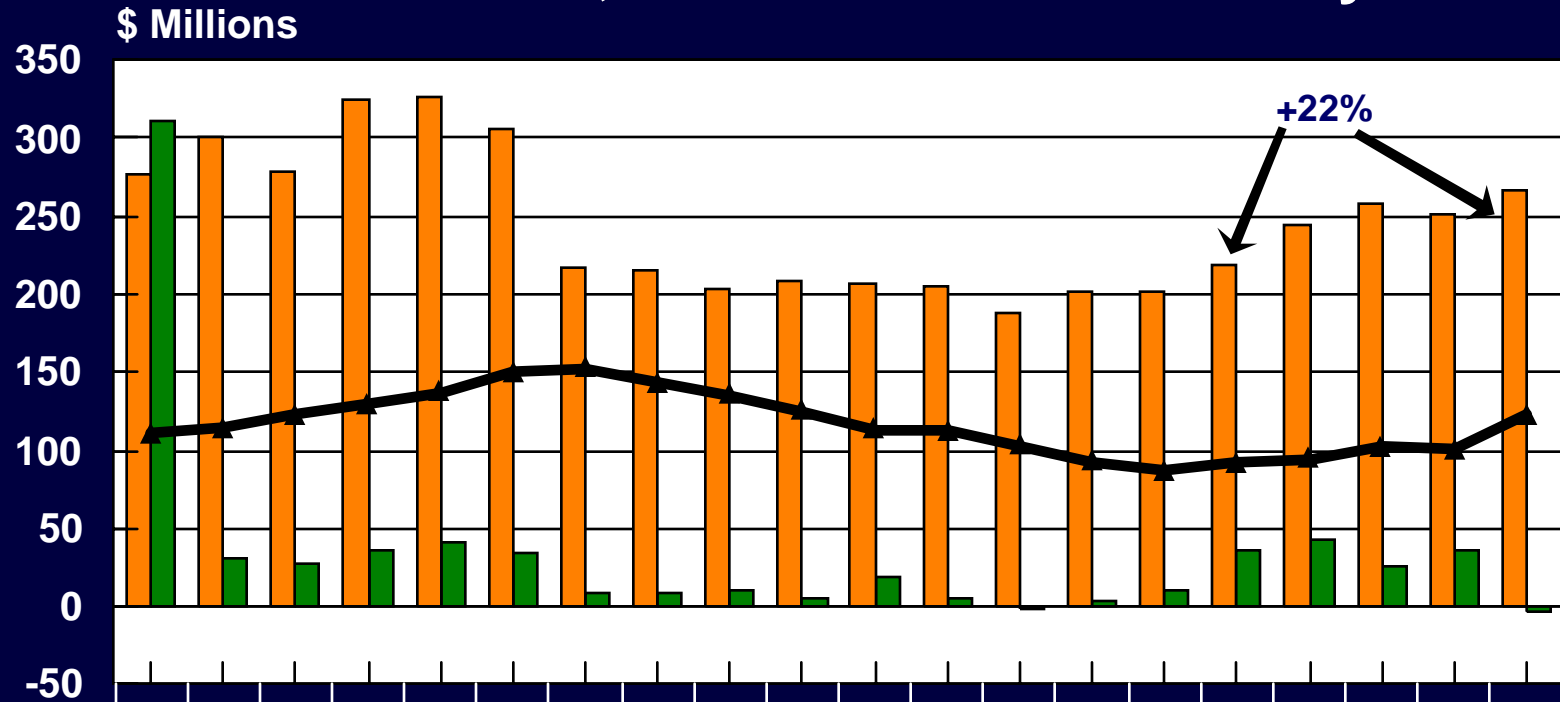
ELECTROMEDICAL, MEASUREMENT & CONTROL EQUIPMENT

Orders & Shipments



Tektronix

Revenue, Net Income & Inventory



	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	00				01				02				03				04			
Revenue	277	301	278	325	327	305	217	215	204	209	206	205	188	202	201	218	244	258	250	267
Income	311	32	27	37	41	35	8	8	10	6	20	5	-2	3	10	36	44	26	36	-3
Inventory	111	114	123	129	137	150	153	144	135	125	113	113	103	93	87	92	95	102	101	123

FY ends May 31

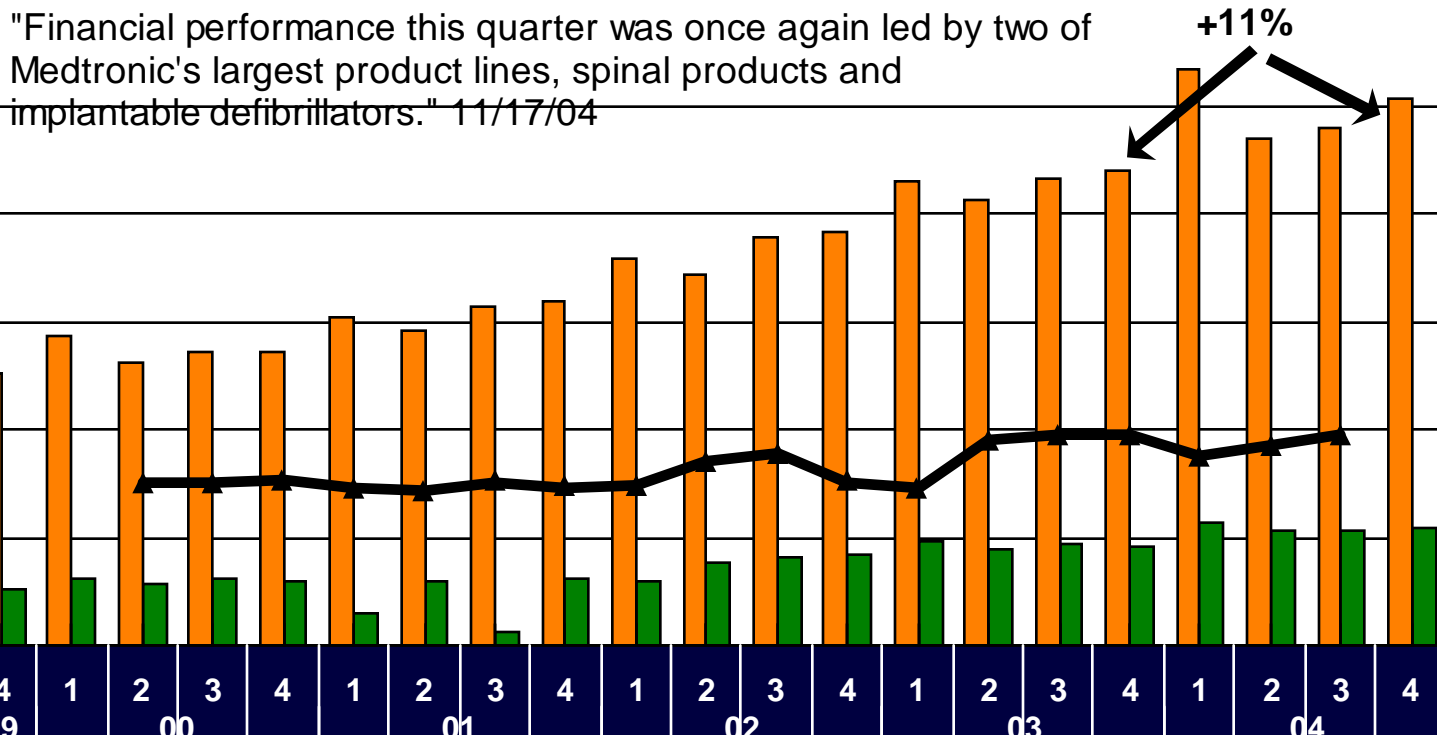
CY

TEK

Medtronic Inc

Revenue, Net Income & Inventory

\$ Millions



	4 99	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Revenue	1259	1433	1310	1362	1362	1518	1456	1571	1592	1792	1714	1891	1913	2148	2064	2164	2195	2665	2346	2400	2531
Income	260	318	284	309	303	150	302	67	315	301	383	416	428	487	450	476	464	569	530	536	544
Inventory			751	755	764	730	718	763	738	748	851	894	763	728	950	978	976	878	932	978	

CY

MDT

Communications Equipment

Worldwide Telecommunications Equipment Manufacturers (\$B)

	2000	2001	2002	2003	2004	'04/'03 <u>% Change</u>
Nokia	27.9	28.0	28.9	34.0	36.6	+7.6
Cisco	23.9	18.3	19.2	19.9	23.6	+18.6
Motorola	37.6	30.0	26.7	27.1	34.7	+28.0
Alcatel	28.8	22.6	15.9	14.9	15.8	+6.0
Ericsson	29.7	20.7	15.3	14.9	18.1	+21.5
Lucent	26.2	20.5	10.8	8.7	9.1	+4.6
Top 6 Total	174.1	140.1	116.8	119.5	137.9	+15.4

- Siemens not included due to multiple product lines
- Nortel not included due to incomplete 2004 reporting

**Growth
Resumes**



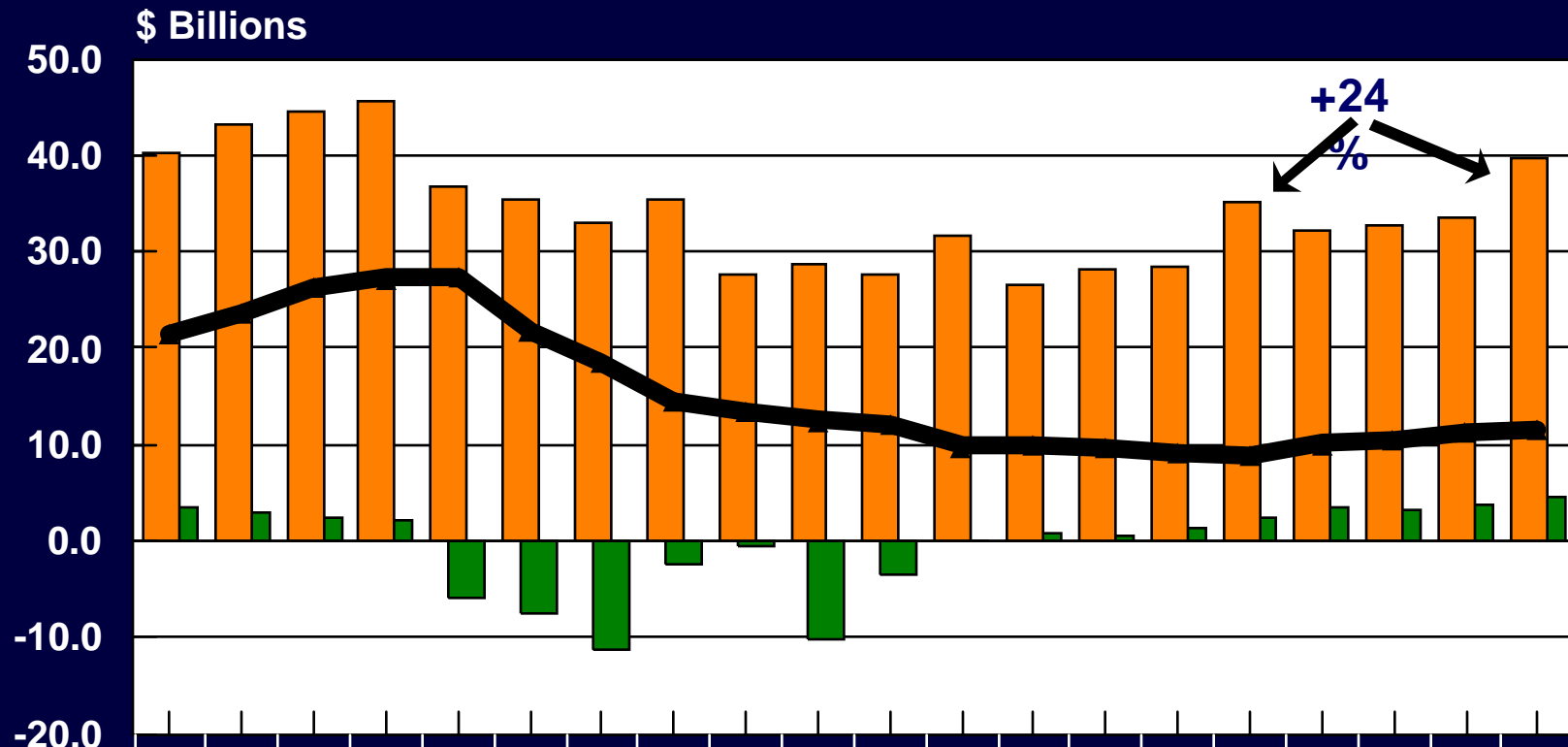
Source: Company financial statements

Alcatel & Ericsson calculated @ fluctuating exchange

Large "Communications" Equipment Suppliers

Composite of 6 Public Companies

Revenue, Net Income & Inventory



	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	00				01				02				03				04			
Revenue	40.1	43.1	44.4	45.5	36.8	35.3	33.0	35.5	27.7	28.6	27.6	31.8	26.6	28.1	28.4	35.1	32.1	32.8	33.5	39.6
Income	3.5	3.0	2.4	2.2	-5.8	-7.6	-11.2	-2.3	-0.5	-10.3	-3.4	-0.1	0.9	0.4	1.4	2.3	3.5	3.1	3.8	4.5
Inventory	21.5	23.7	26.4	27.3	27.5	21.8	18.5	14.6	13.5	12.5	12.1	9.8	10.0	9.7	9.1	8.9	10.1	10.5	11.3	11.5

Alcatel, Cisco, Ericsson, Lucent, Motorola, Nokia
 Euros & Krona converted at fluctuating exchange

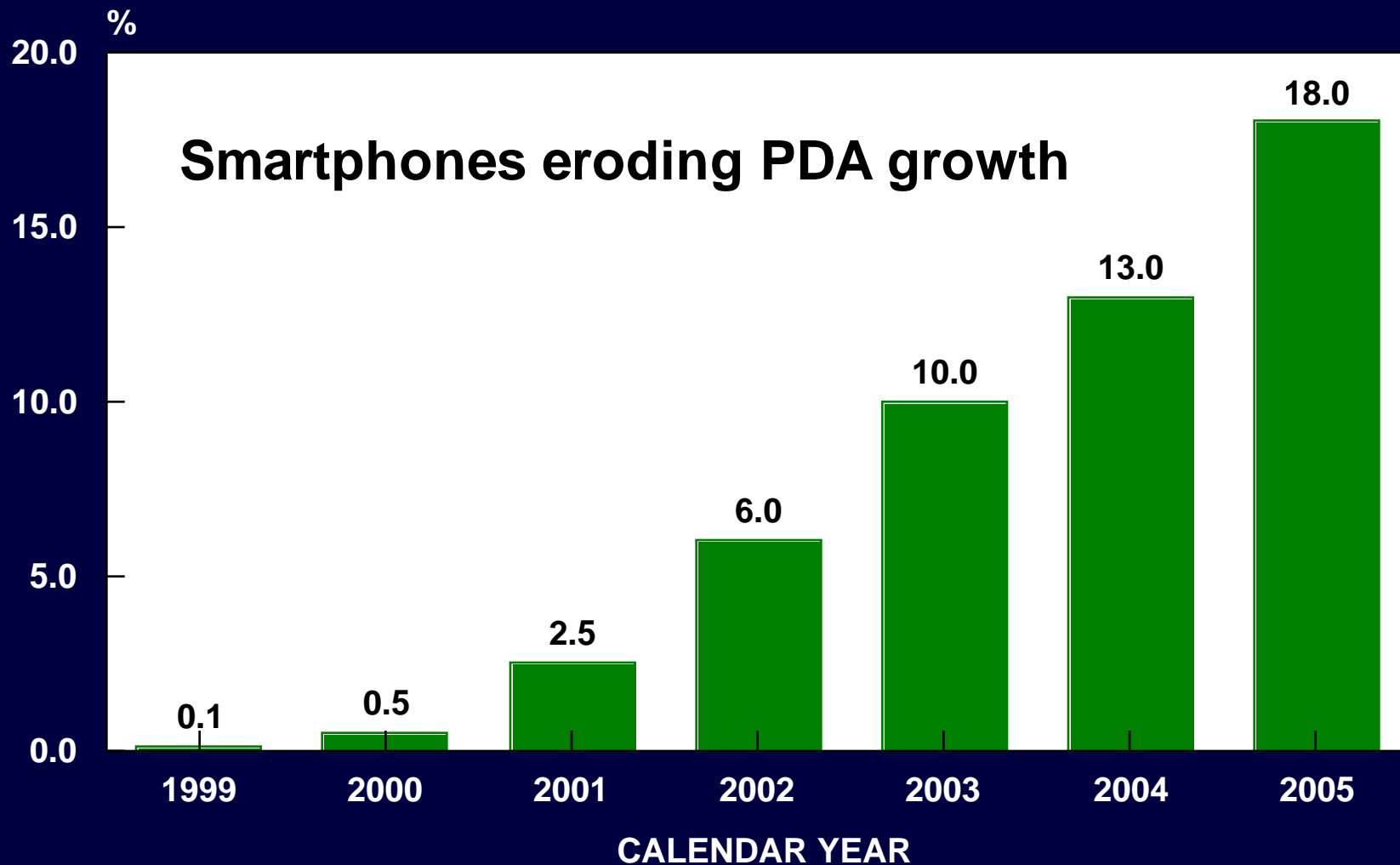
World Mobile Phone Unit Shipments

Total Sales - Analog & Digital



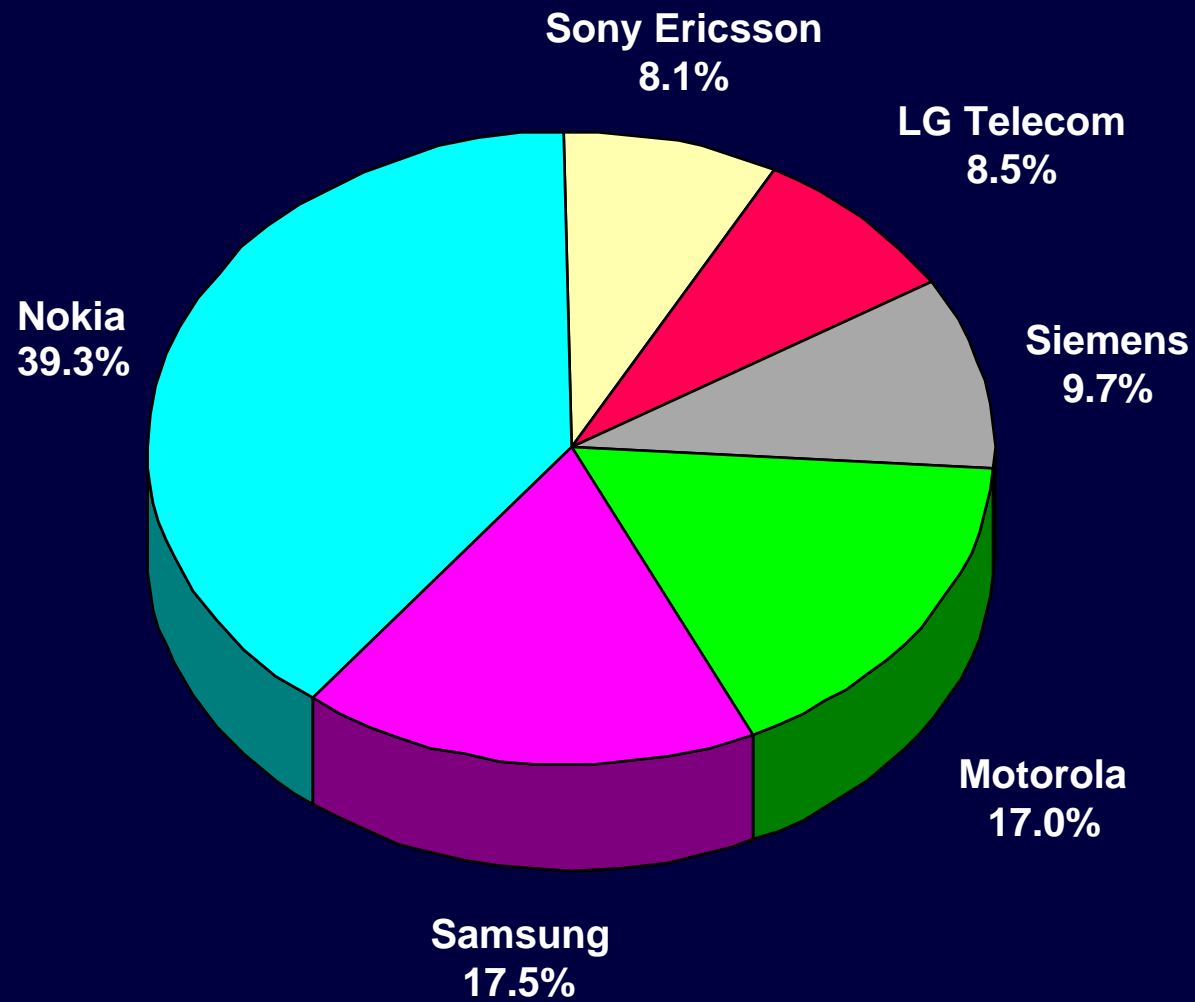
Dataquest 11/2004, custer estimate for 2004 based upon 1-3Q'04 actuals plus normal seasonal growth in 4Q'04

Smartphone Market Share of Mobile Phone Market



WORLD CELLULAR PHONE SALES

3Q'04



TOTAL: 167 MILLION UNITS

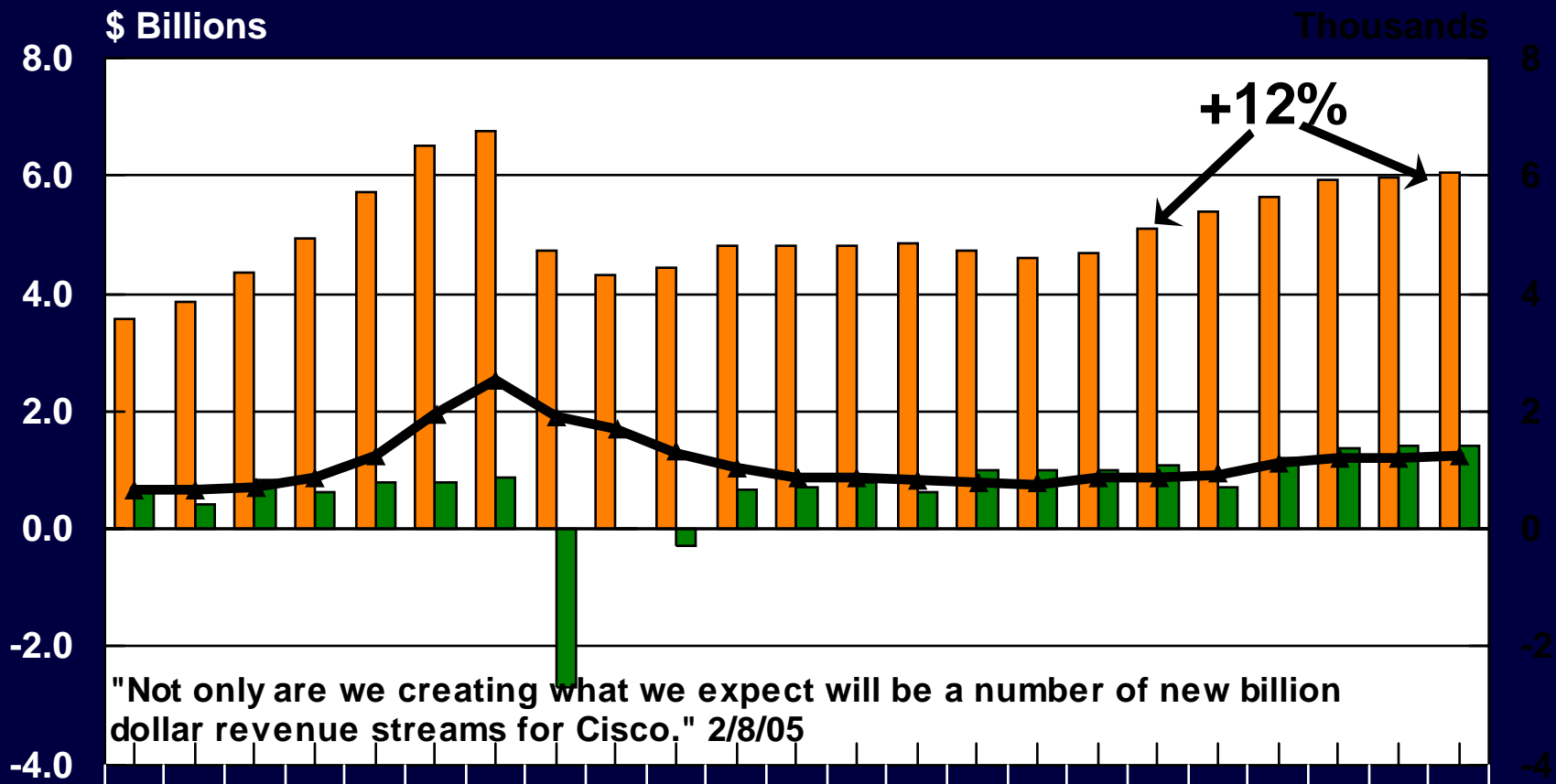
The mobile phone supply chain is undergoing changes since cellular phone telephone makers no longer have the leverage they once did.

Service providers are determining what hardware suppliers provide and are taking more control of the value chain - thus dictating which models and features are offered.

Internet Infrastructure

Cisco Systems

Revenue, Net Income & Inventory

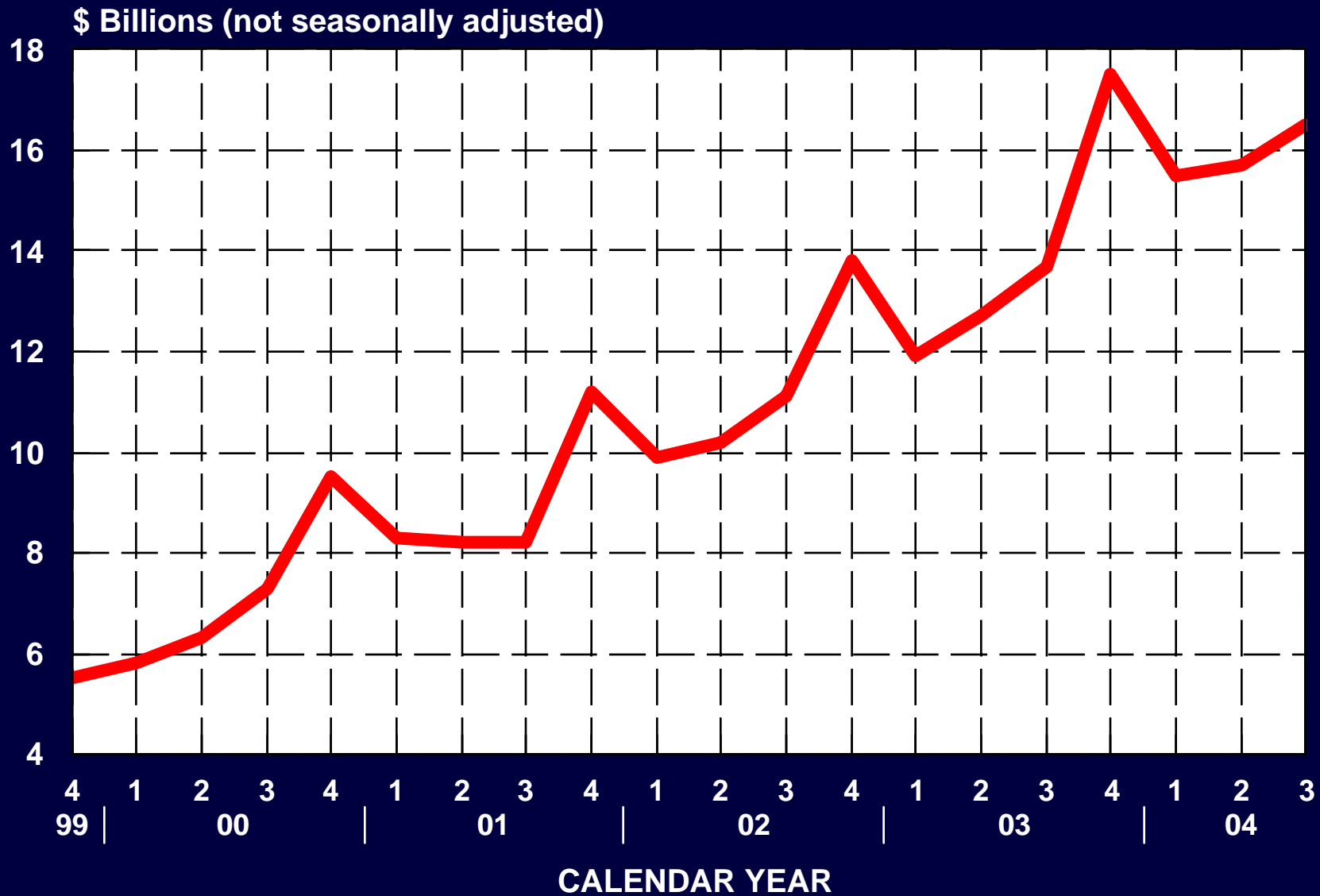


	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
	99				00				01				02				03				04			
Revenue	3.6	3.9	4.4	4.9	5.7	6.5	6.7	4.7	4.3	4.4	4.8	4.8	4.8	4.8	4.7	4.6	4.7	5.1	5.4	5.6	5.9	6.0	6.1	
Income	0.7	0.4	0.8	0.6	0.8	0.8	0.9	-2.7	0.0	-0.3	0.7	0.7	0.8	0.6	1.0	1.0	1.0	1.1	0.7	1.2	1.4	1.4	1.4	
Inventory	0.7	0.7	0.7	0.9	1.2	2.0	2.5	1.9	1.7	1.3	1.0	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.9	1.1	1.2	1.2	1.3	

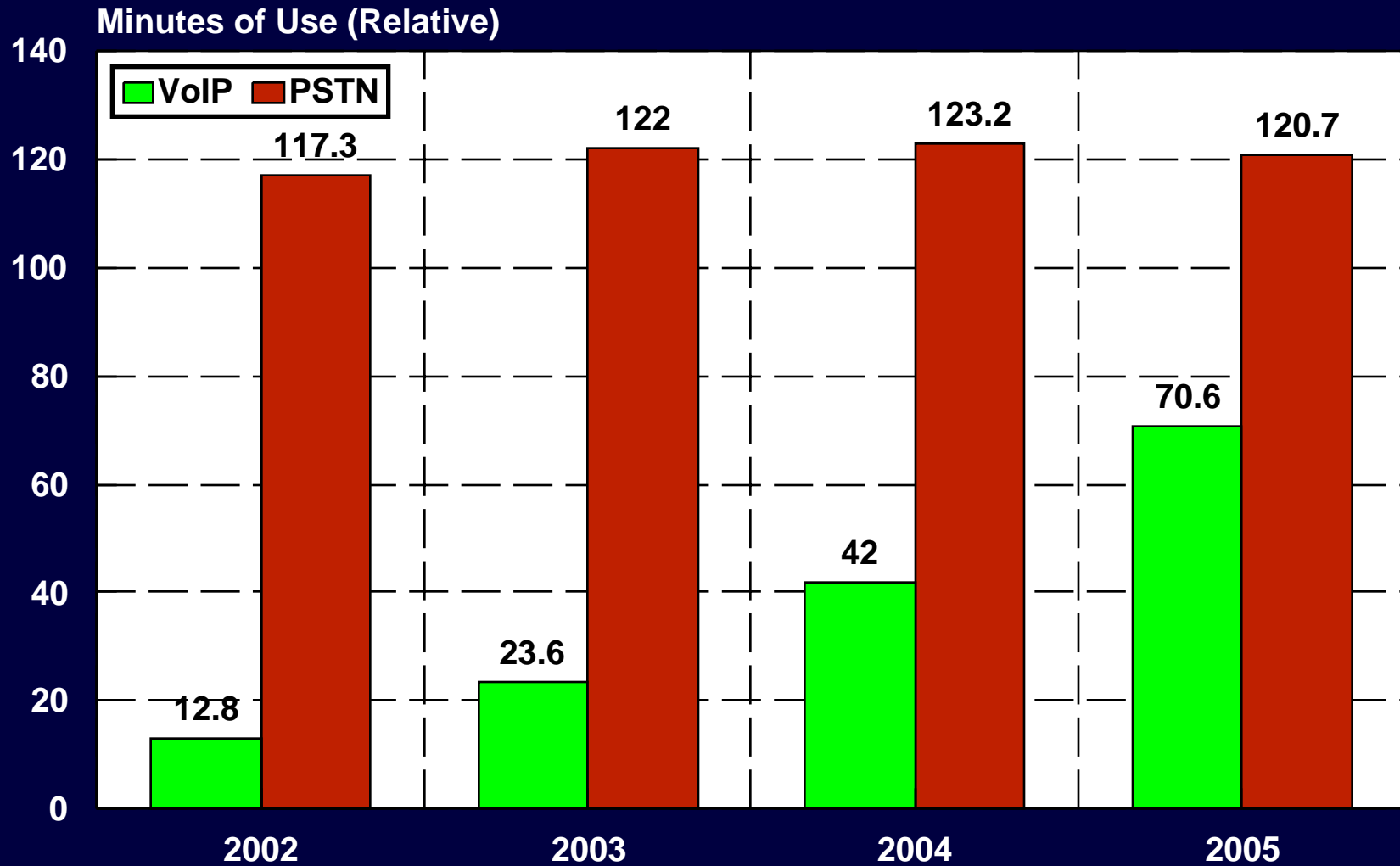
CY

CSCO

U.S. Online Retail Sales



Voice over IP vs. Public Switched Telephone Network



Wireless Group Standards

Technology	Speed (bit/sec)	Status
UMTS	up to 384 K (burst)	Available
OFDM	up to 1.5 M	Available
EV-DO	up to 2.4 M (burst)	Available
HSDPA	up to 14.4 M	In trials
4G	up to 300 M	In trials

UMTS= Universal Mobile Telecommunications System

OFDM=Orthogonal Frequency Division Multiplexing

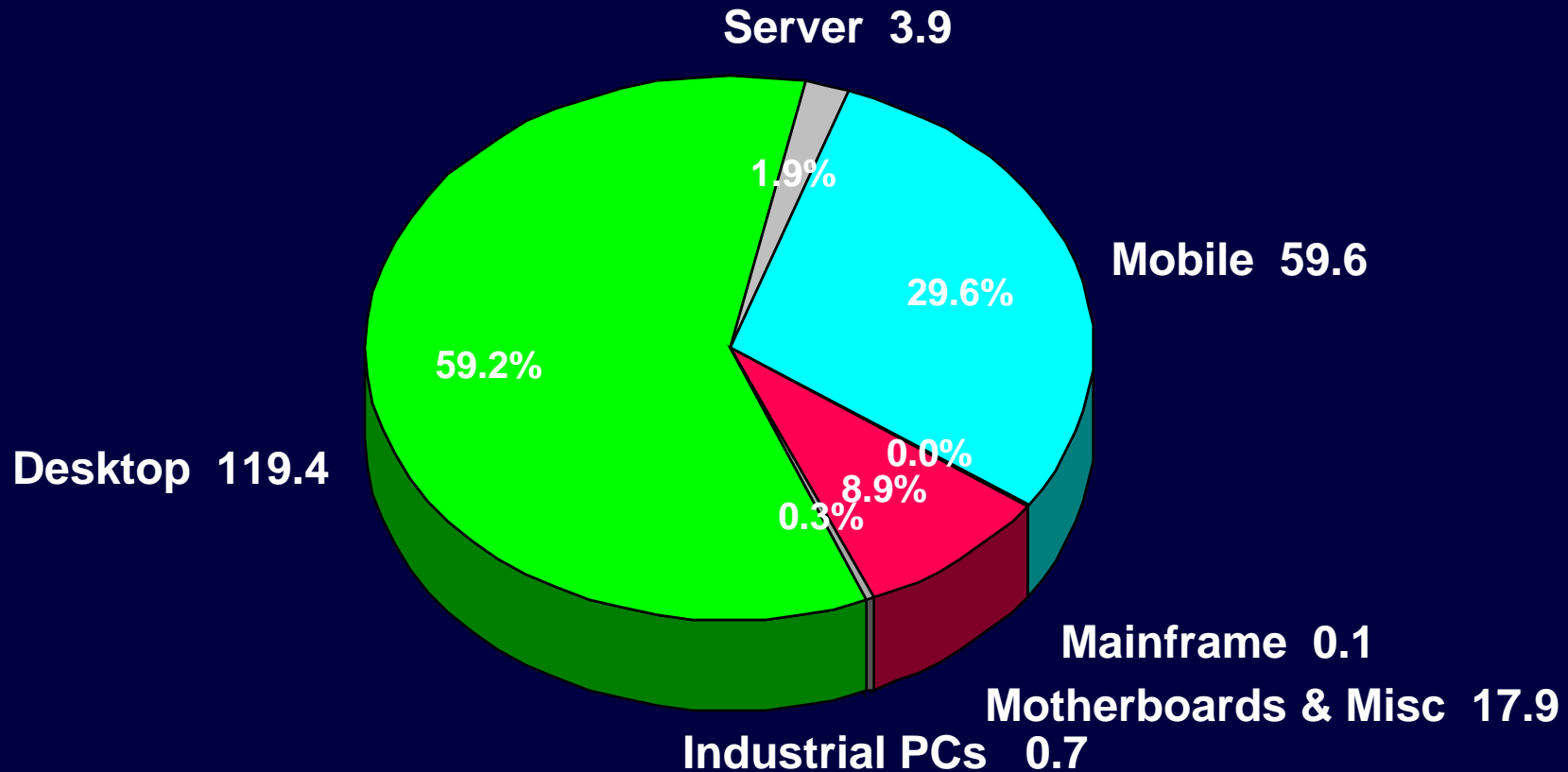
EV-DO=Evolution-Data Only

HSDPA= High-speed Download Packet Access

**Computers
&
Related
Products**

World Computer Equipment Market

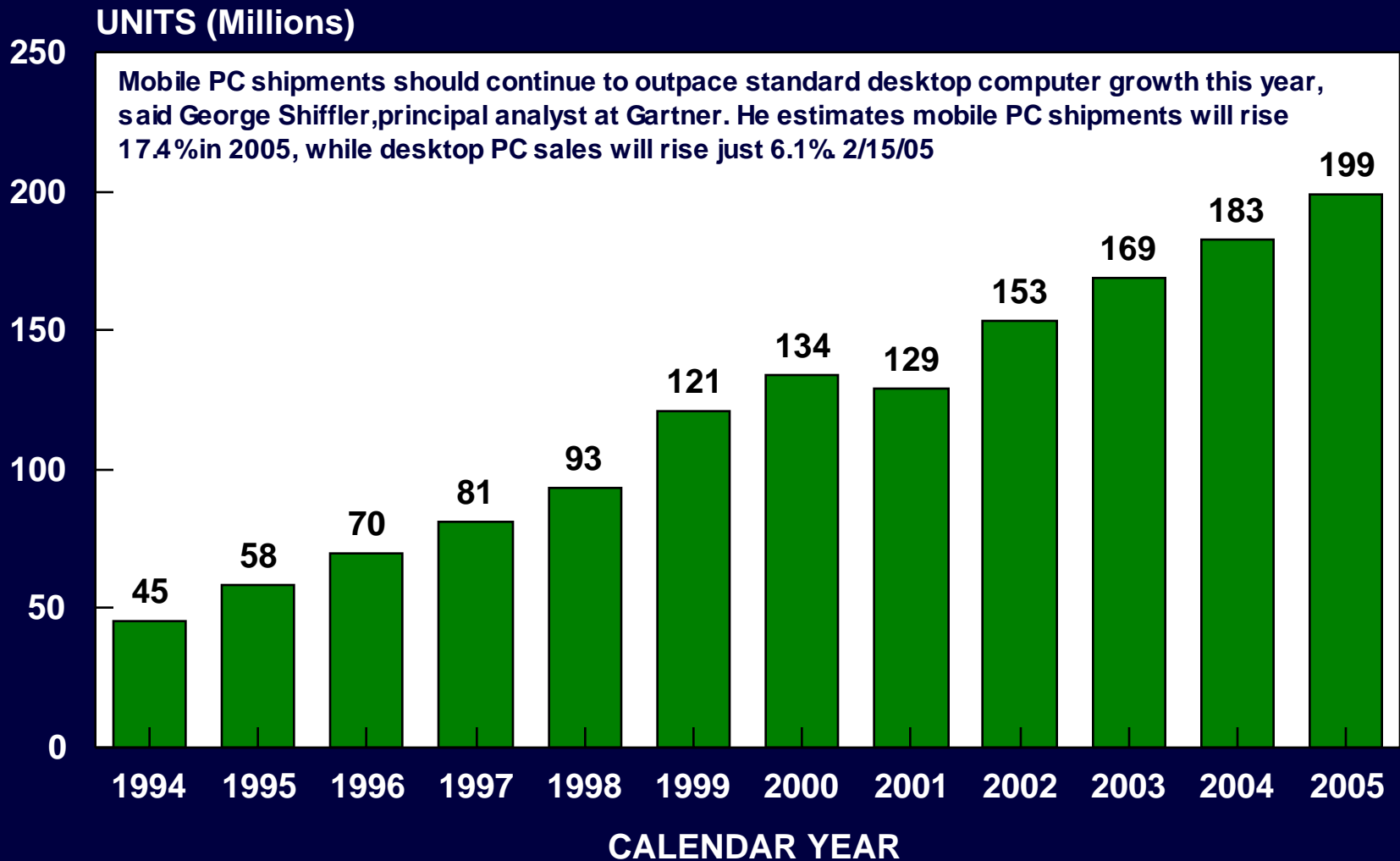
2004



Total: 201 Million Units

PERSONAL COMPUTER GROWTH

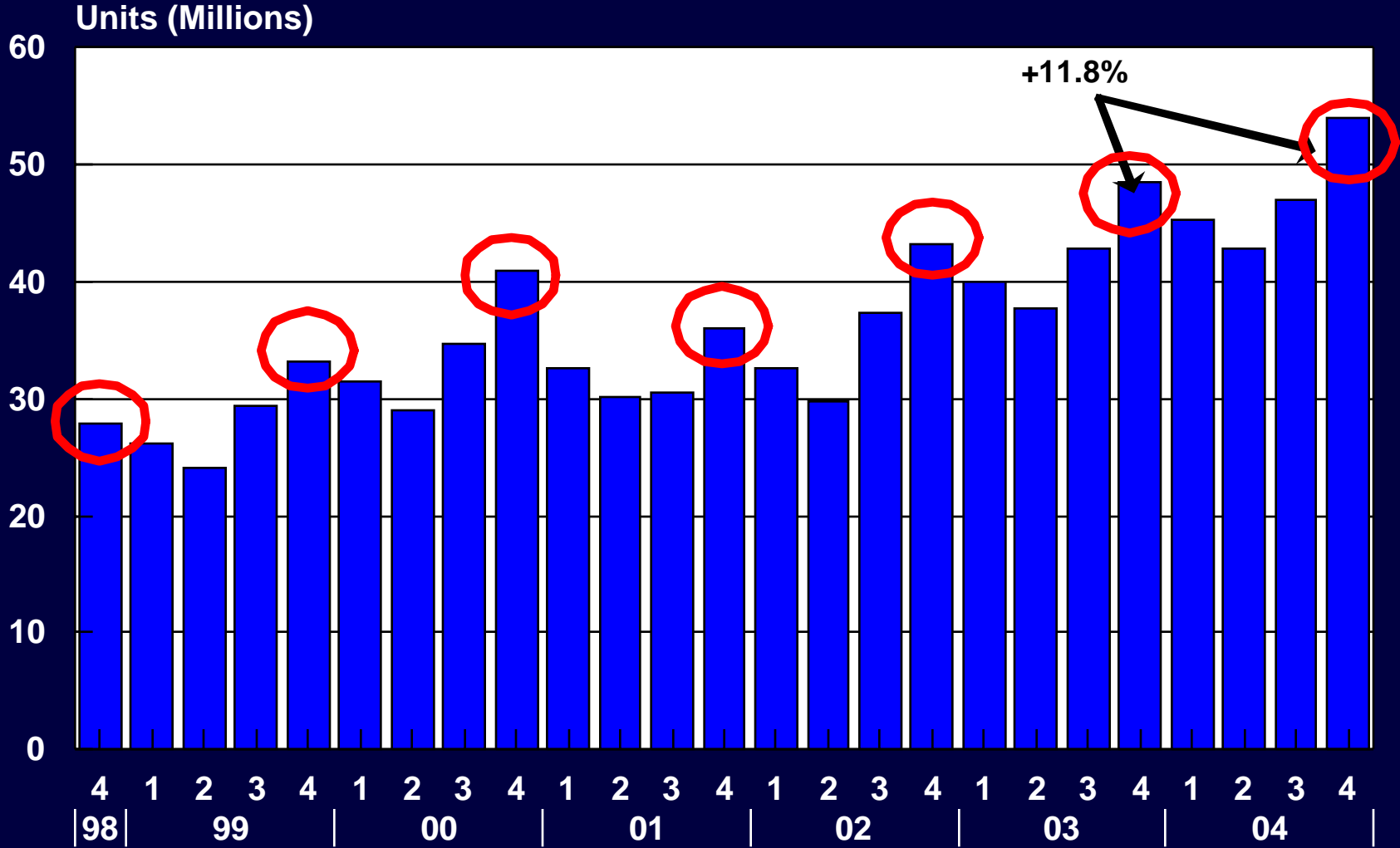
GLOBAL SALES



Gartner Dataquest 2/2005

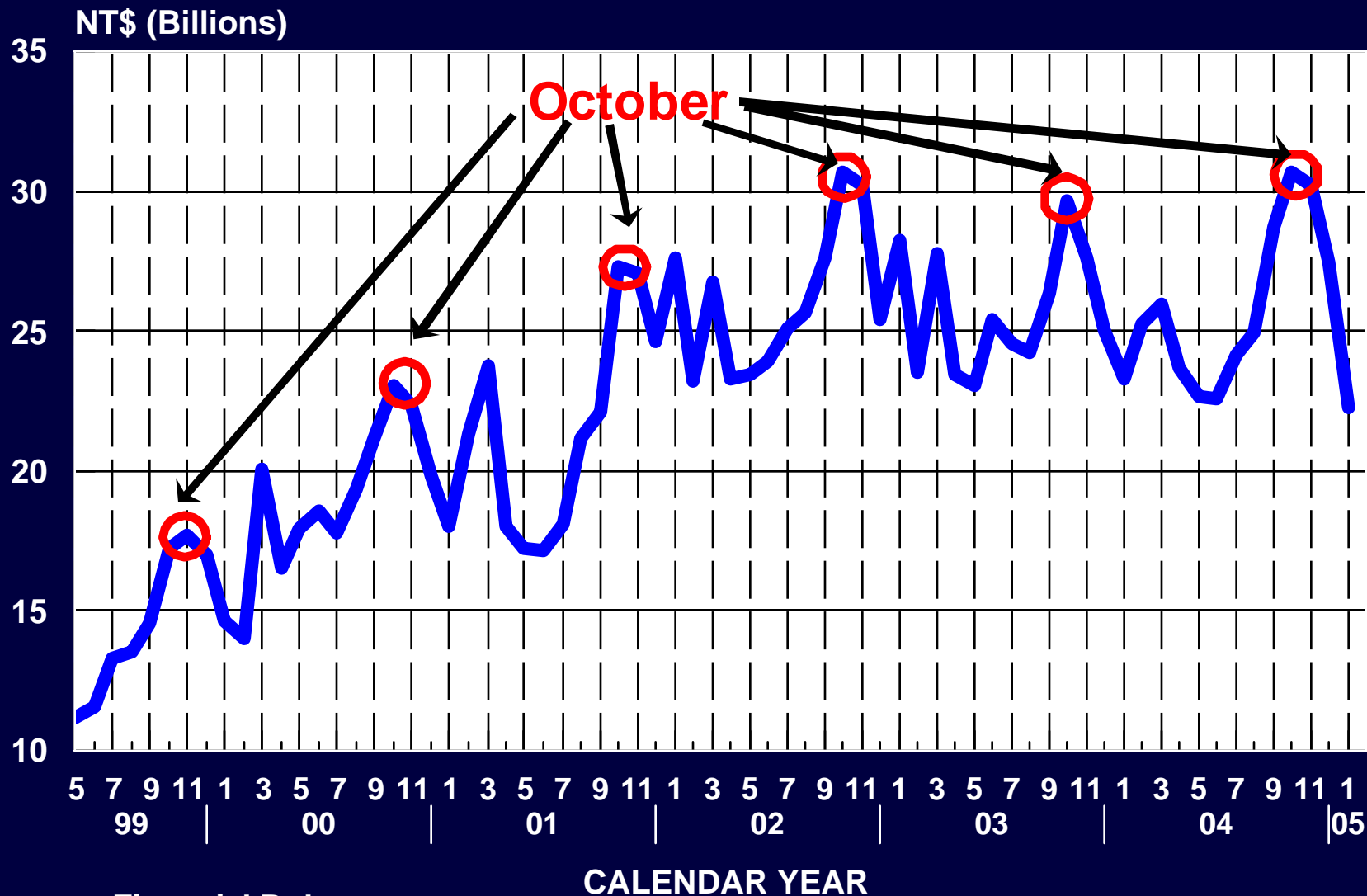
Desktops, Notebooks, Ultratables, IA-32 Servers

Personal Computer Unit Shipments World



Gartner 1/05
Servers not included

Taiwan Motherboard Vendor Sales Composite of 13 Large Manufacturers

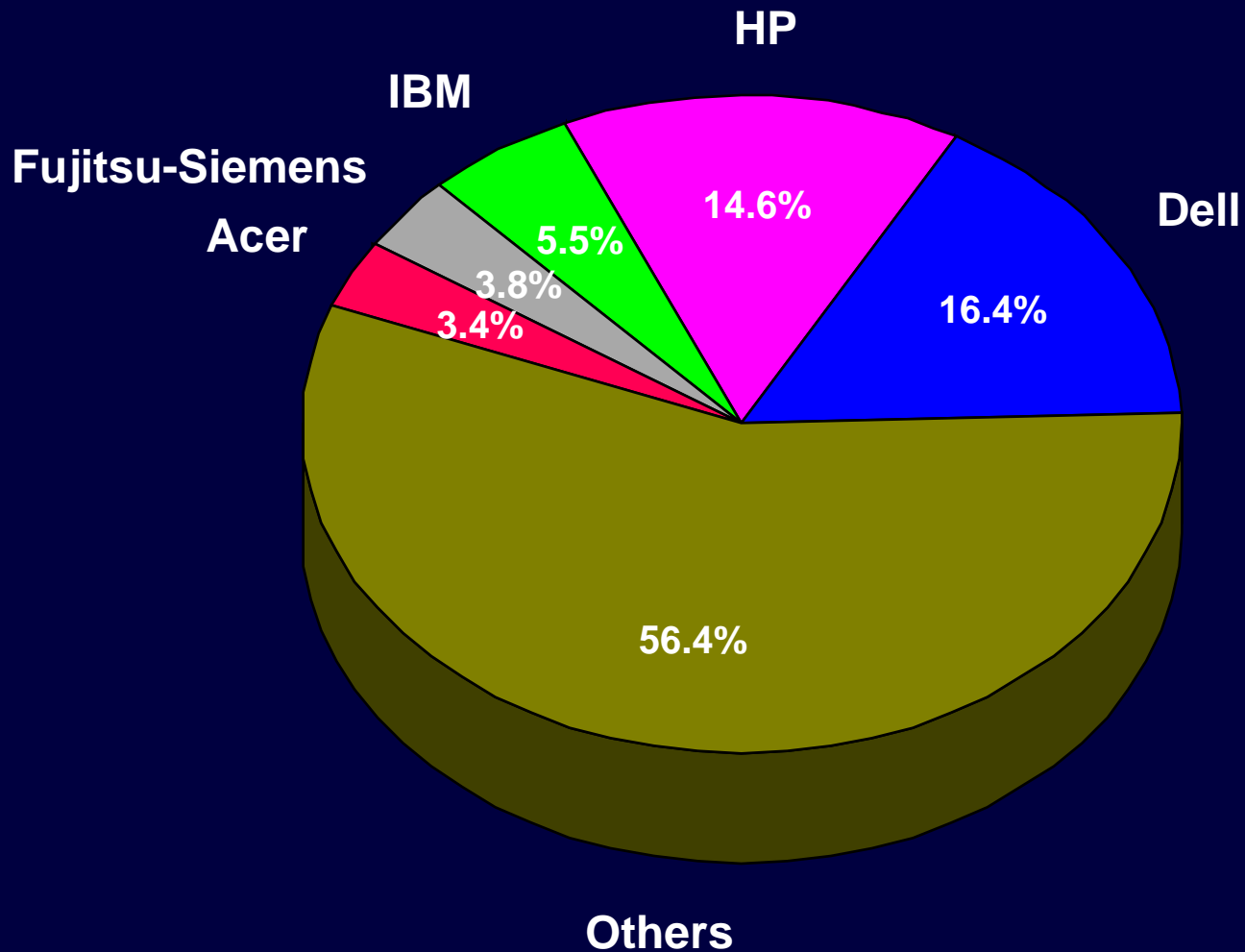


Company Financial Releases

ABIT, AOpen, Asustek, Biostar, Chaintech, Elite Group, Epox, Giga-Byte, Leadtek, Microstar Intl, Shuttle, Soyo, Universal Scientific

WORLD PERSONAL COMPUTER MARKET

2004



DATAQUEST 1/2005

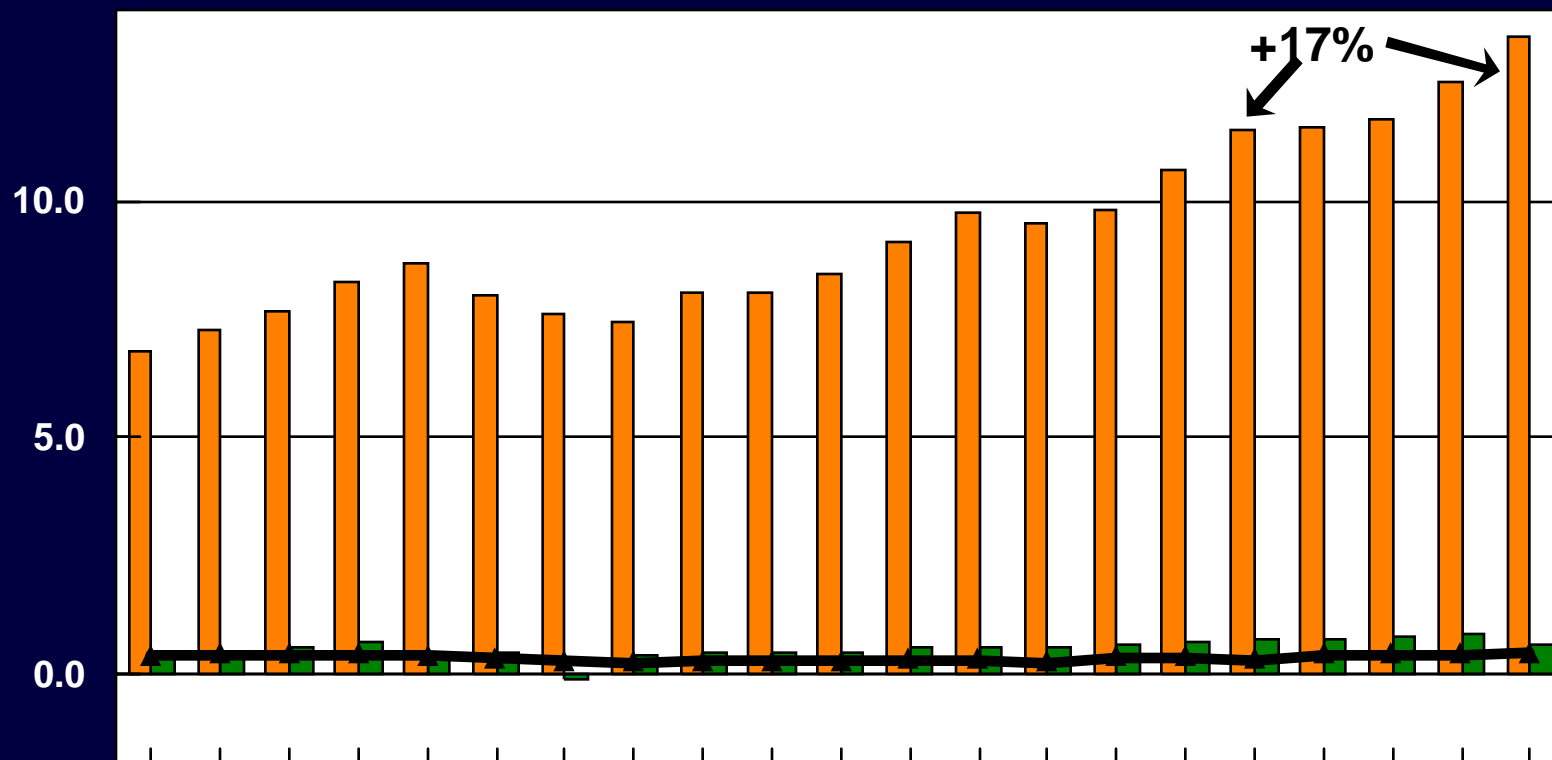
TOTAL: 189 M UNITS

Preliminary, includes desk-based PCs, mobile PCs and IA-32 servers

Dell Computer

Revenue, Net Income & Inventory

\$ Billions



	4 99	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	00				01				02				03				04				
SALES	6.8	7.3	7.7	8.3	8.7	8.0	7.6	7.5	8.1	8.1	8.5	9.1	9.7	9.5	9.8	10.6	11.5	11.5	11.7	12.5	13.5
PROFITS	0.4	0.5	0.6	0.7	0.4	0.5	-0.1	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.7
Inventory	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.5

CY

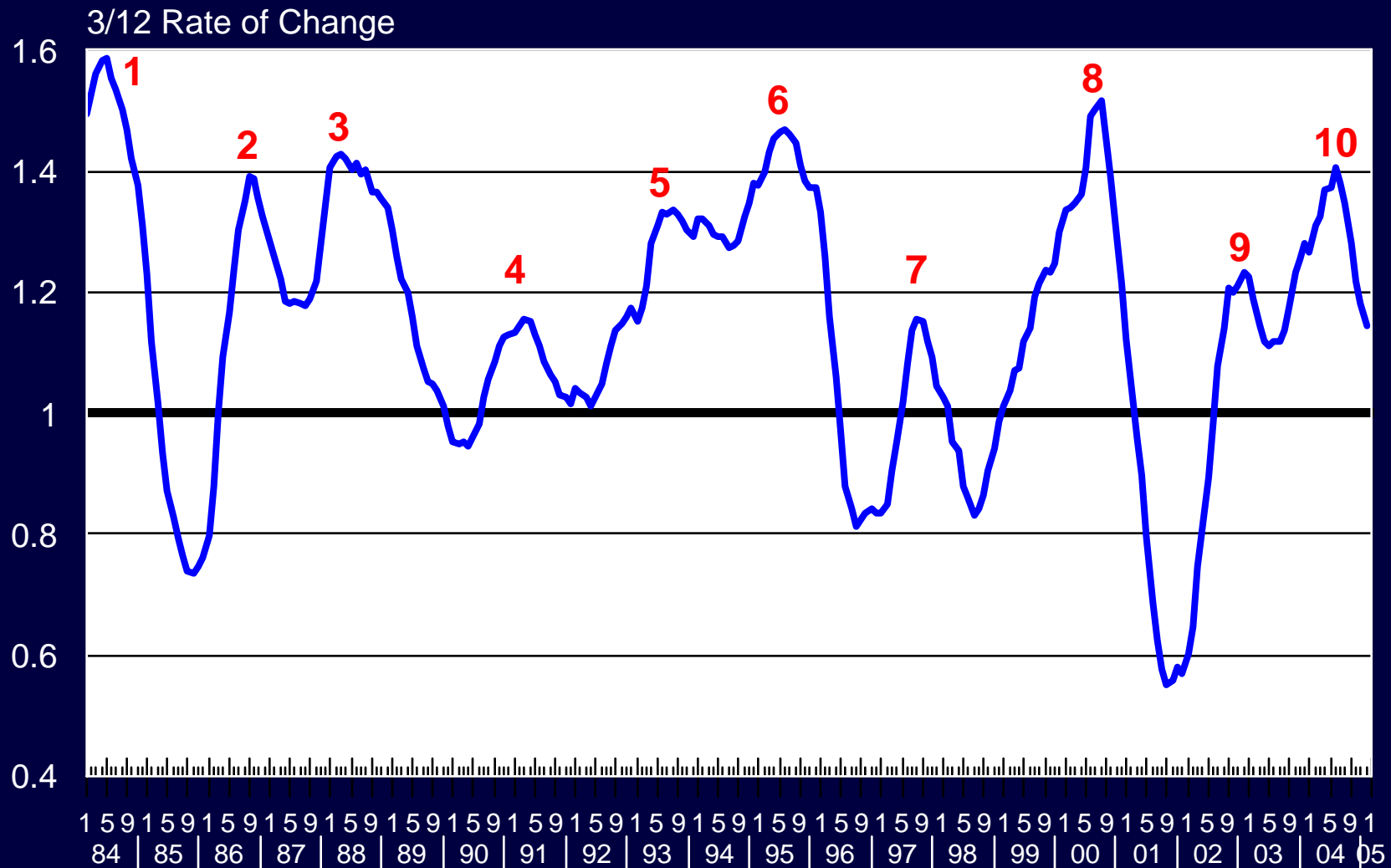
FY ends October

DELL

Semiconductors

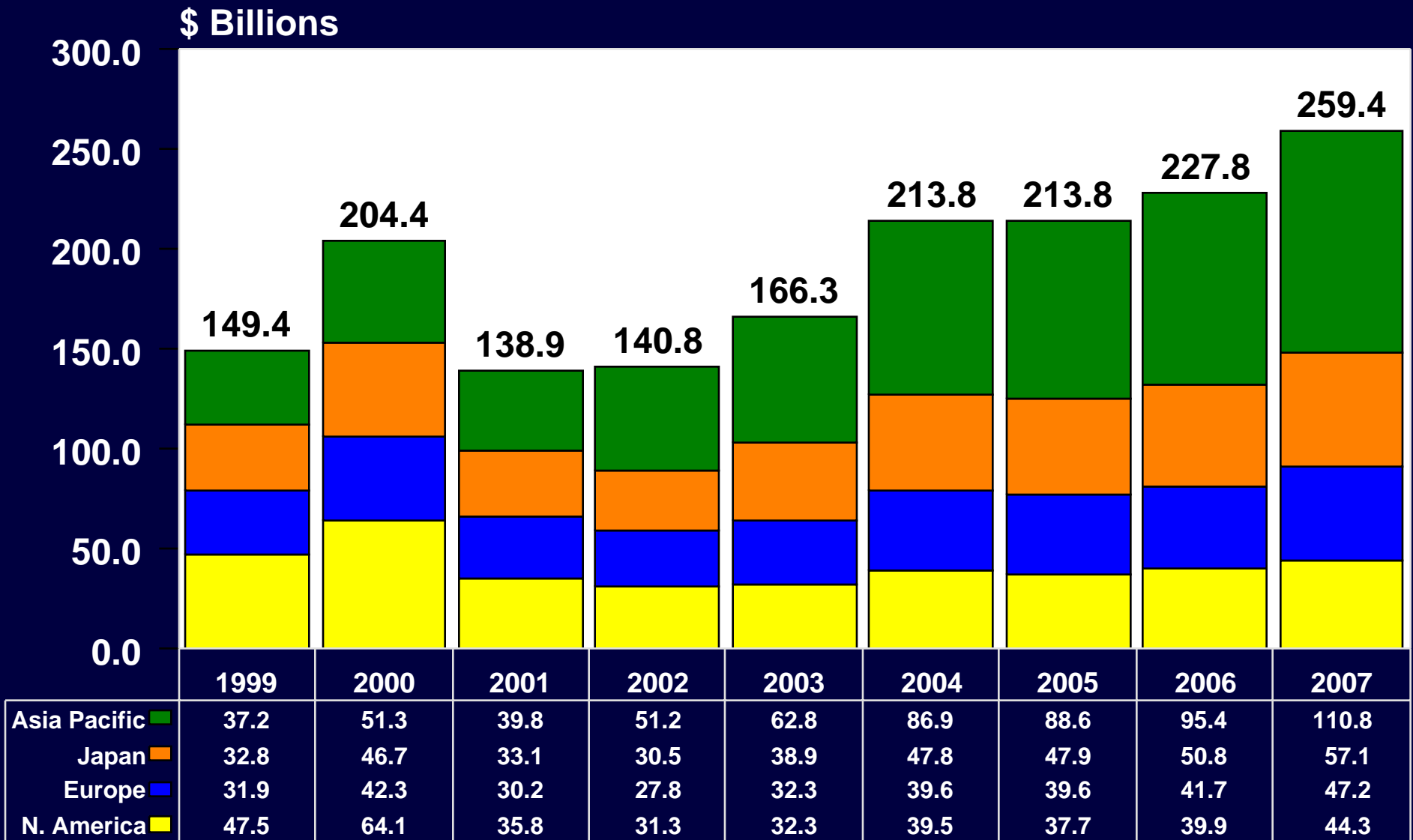
Global Semiconductor Shipments

3-Month Growth Rates on \$ Basis



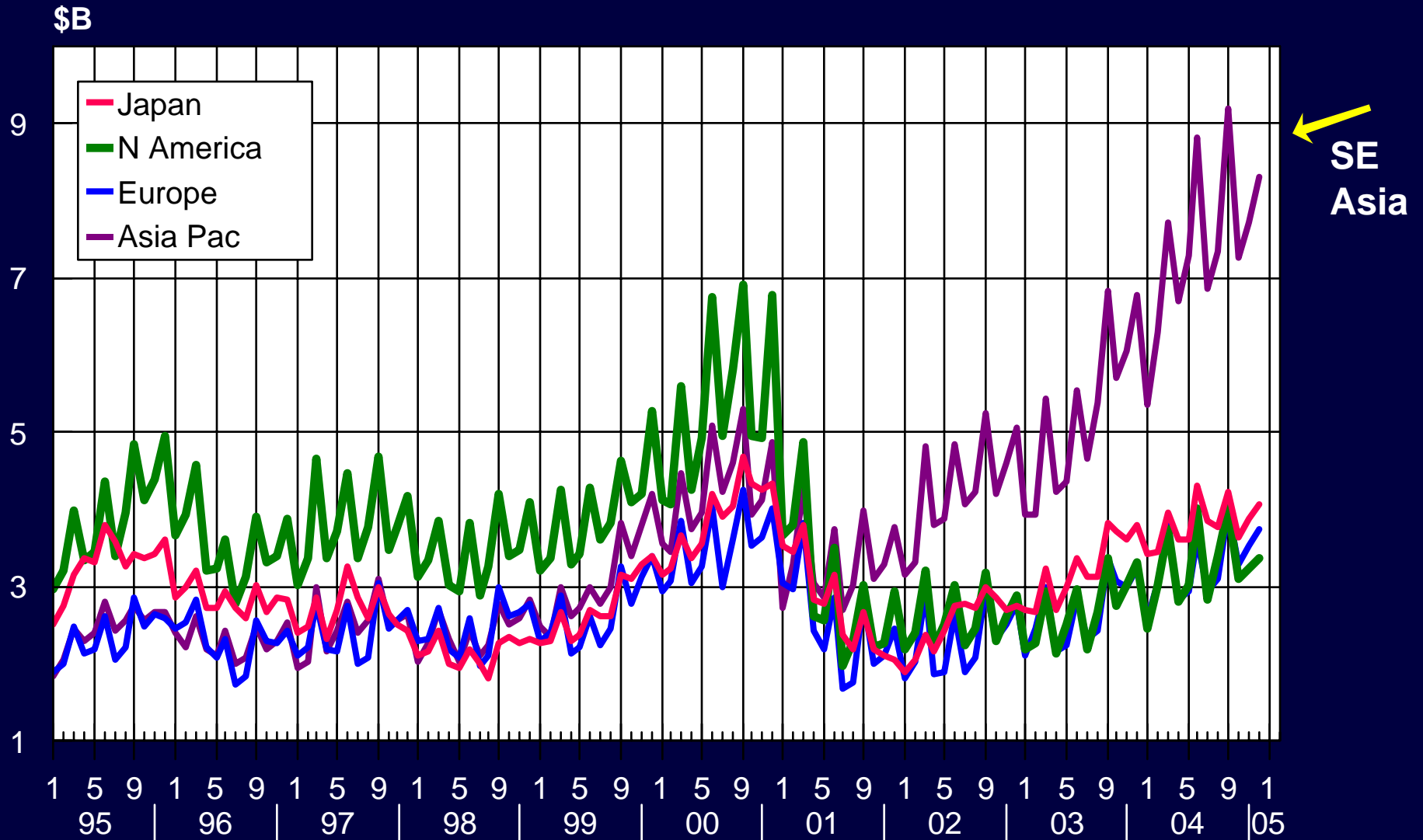
Total \$ Shipments from All Countries to an Area
SIA website: www.sia-online.org/

Worldwide Semiconductor Market by Geography SIA Forecast



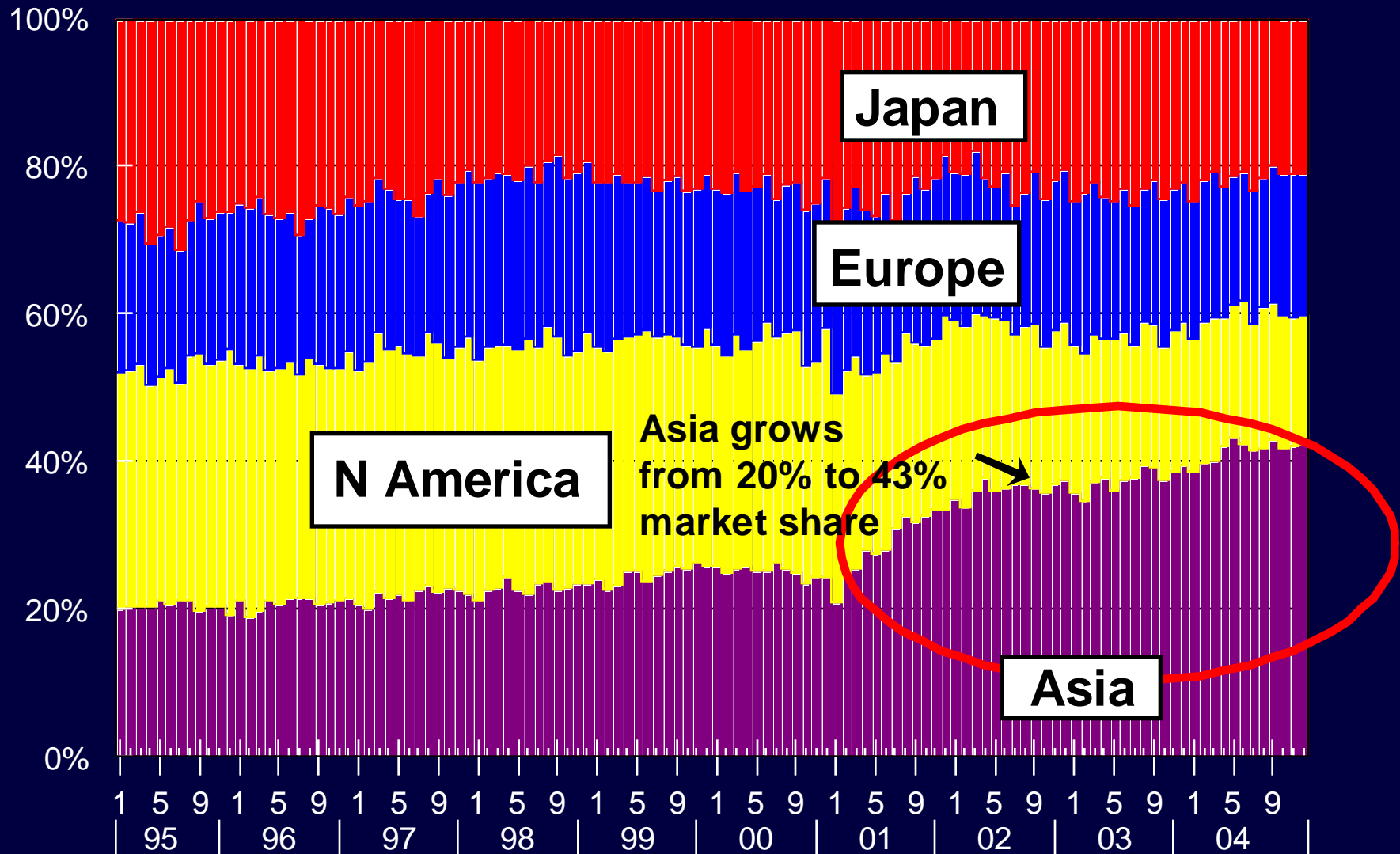
Total Semiconductor Shipments to an Area

Monthly Shipments - Reporting Firms

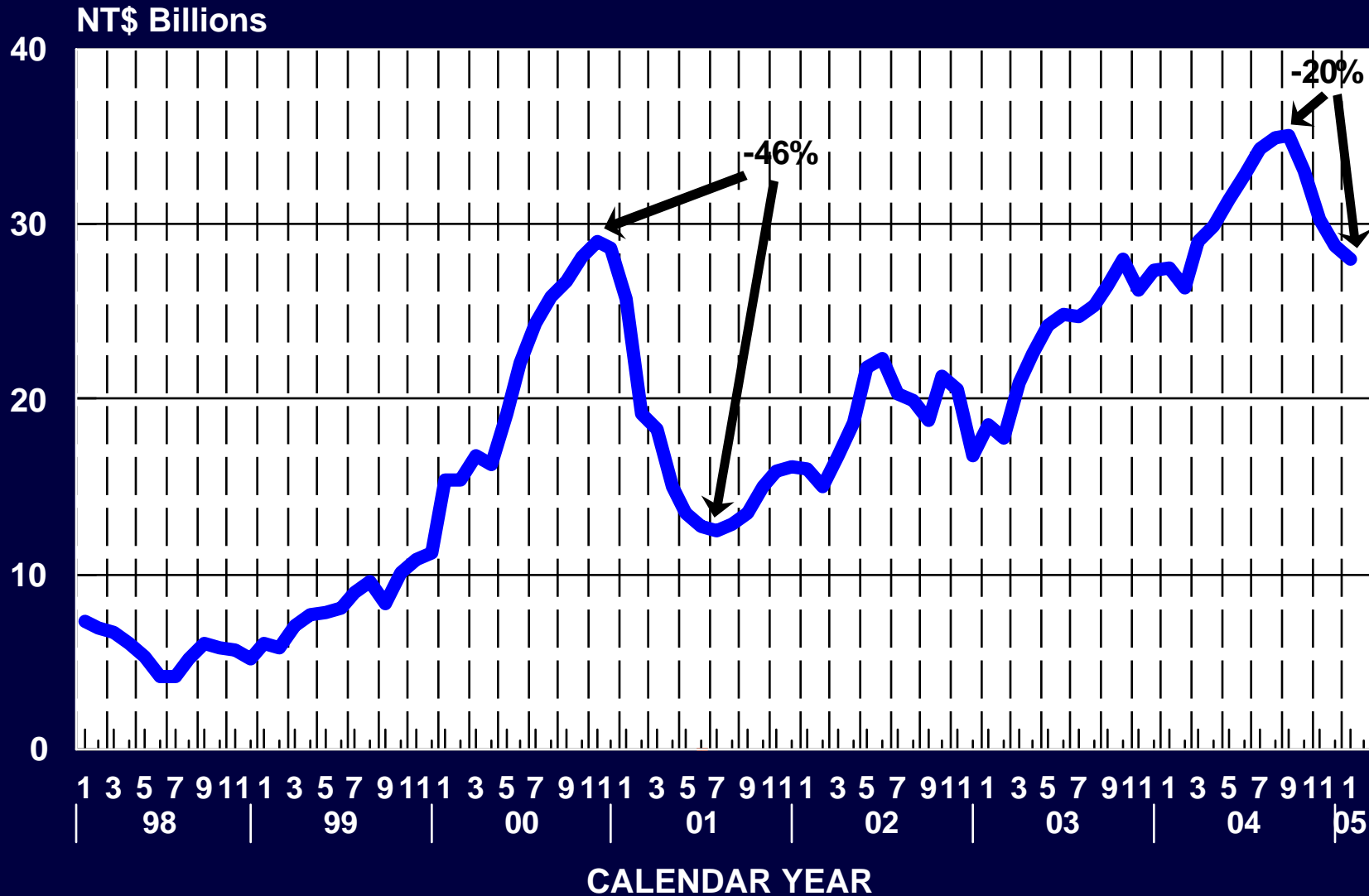


Total Semiconductor Shipments to an Area

Monthly Shipments - Reporting Firms



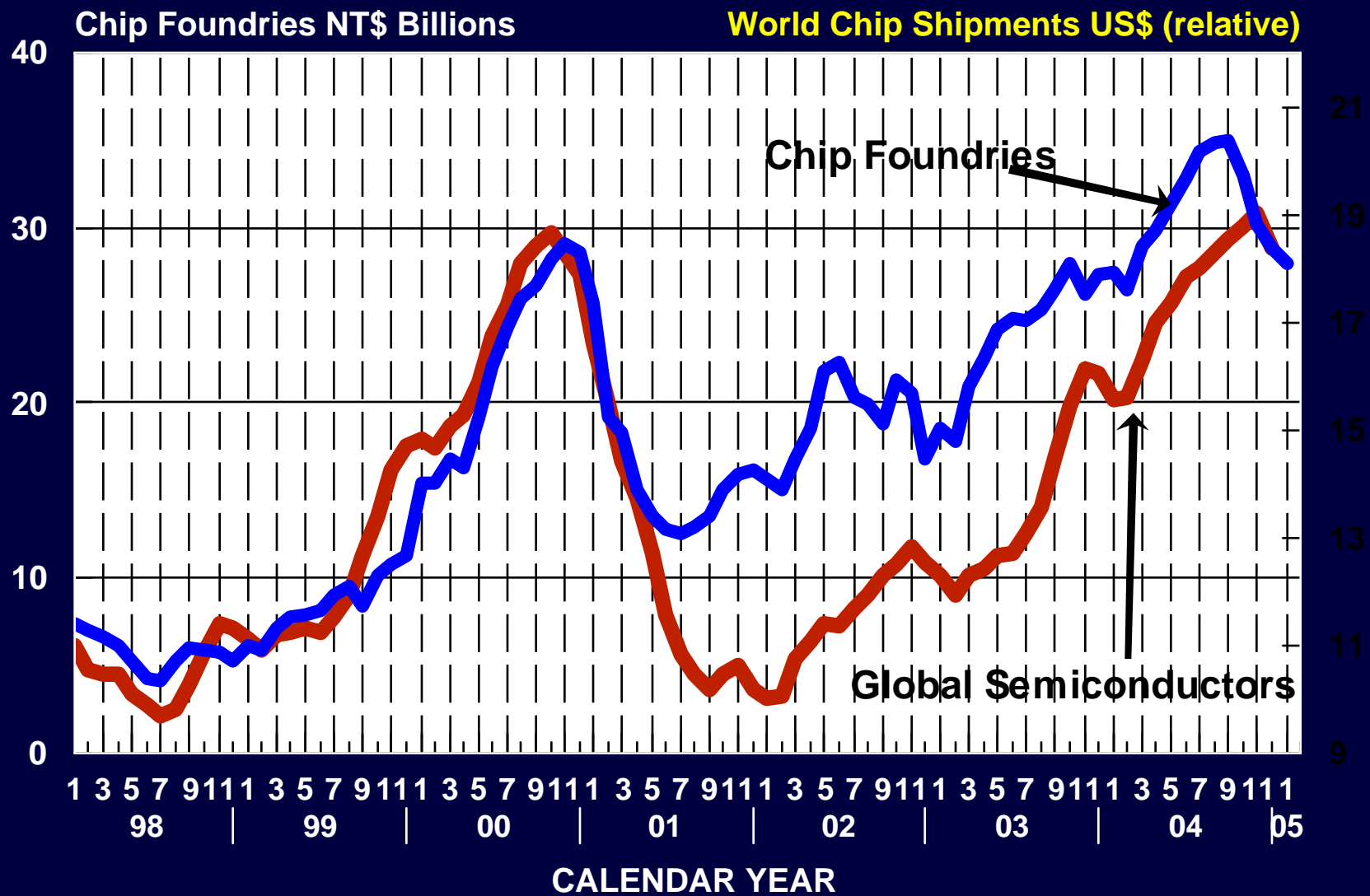
Taiwan Chip Foundry Revenues Composite of TSMC & UMC



Company Financial Releases

Taiwan Semiconductor Manufacturing Company & United Microelectronics

Taiwan Chip Foundry Composite vs Global Semiconductor Revenues



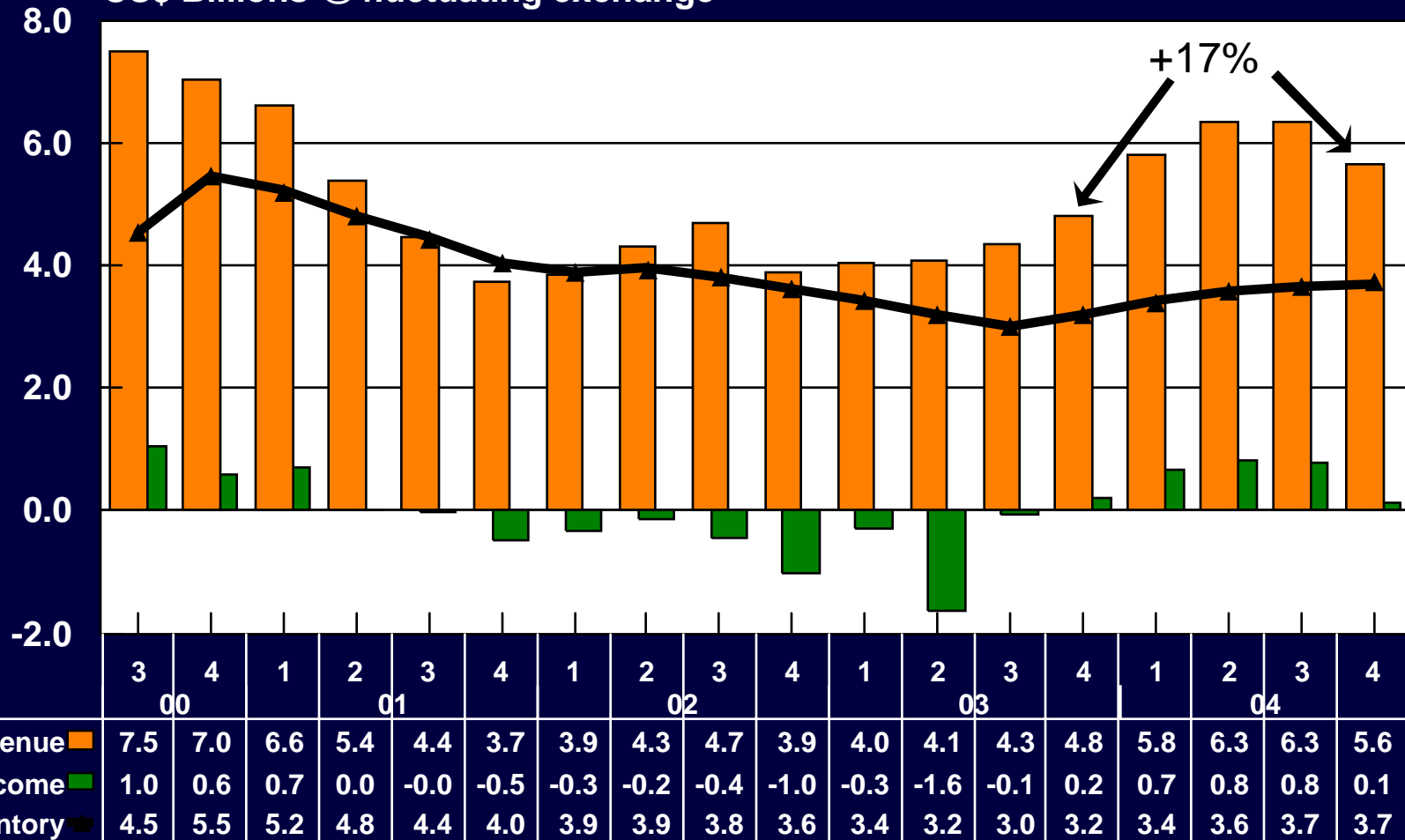
Company Financial Releases & SIA

**Semiconductor
Fab, Assembly,
Packaging, Test & Measurement
Equipment**

Semiconductor Fab, Test & Measurement Composite of 14 Public Companies

Revenue, Net Income & Inventory

US\$ Billions @ fluctuating exchange

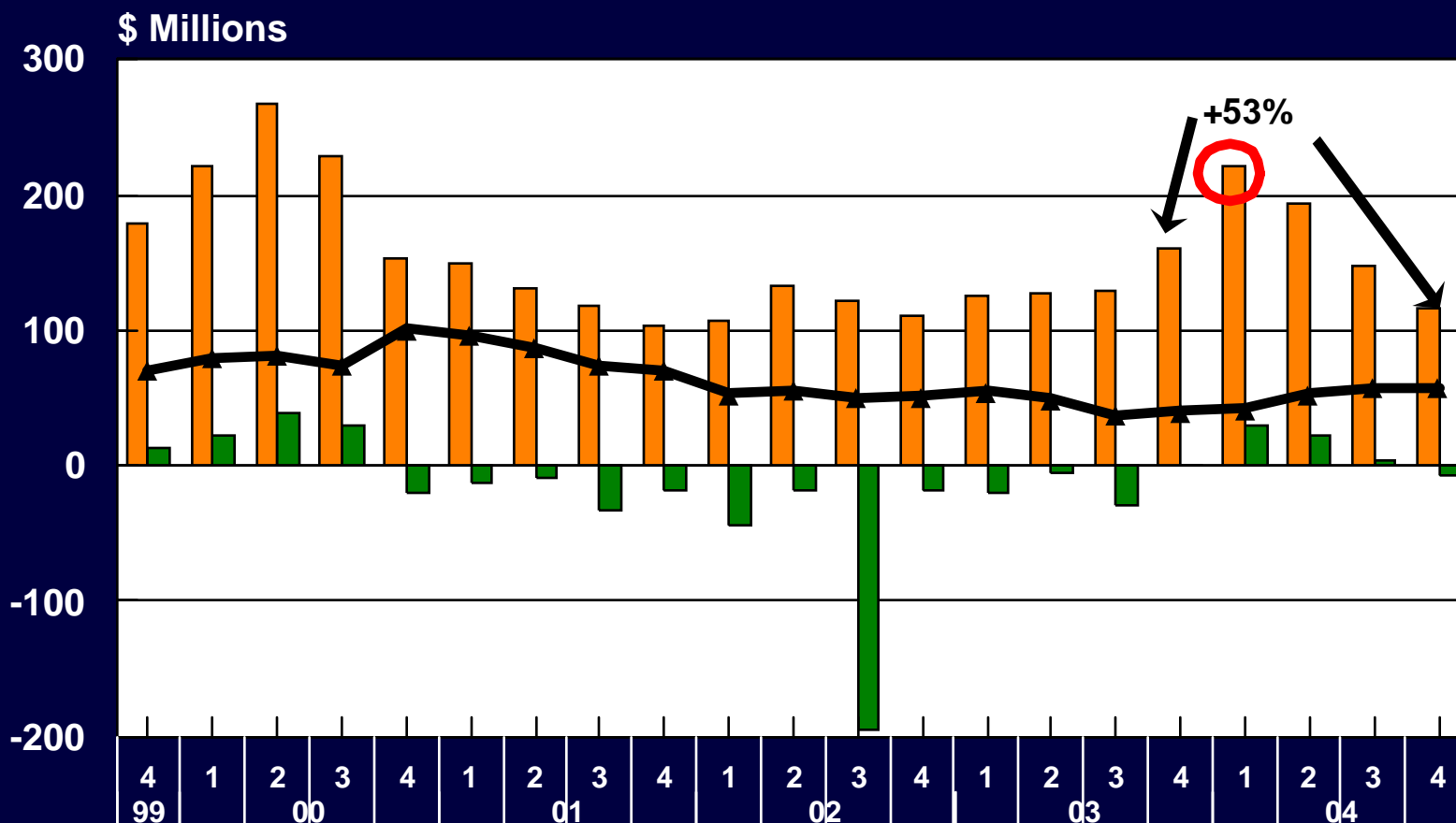


Applied Materials, KLA-Tencor, Novellus Systems, Agilent Technologies, BTU International, FEI Co, IBIS Tech, Kulicke & Soffa, MKS Instruments, ST Assembly Test Services, Teradyne, Ultratech Stepper,

Kulicke & Sofa

Revenue, Net Income & Inventory

"We are pleased with the progress made in our technology projects and our cost reduction efforts and look forward to the improved financial performance they will drive when the cycle turns" 1/27/05



Revenue	180	222	268	229	153	149	131	118	103	107	132	122	111	126	128	129	160	222	195	148	116
Income	13	22	38	30	-20	-12	-9	-33	-17	-44	-18	-195	-18	-19	-6	-28	1	29	23	3	-7
Inventory	70	80	82	74	101	97	87	74	71	53	56	51	51	55	49	38	40	42	54	58	58

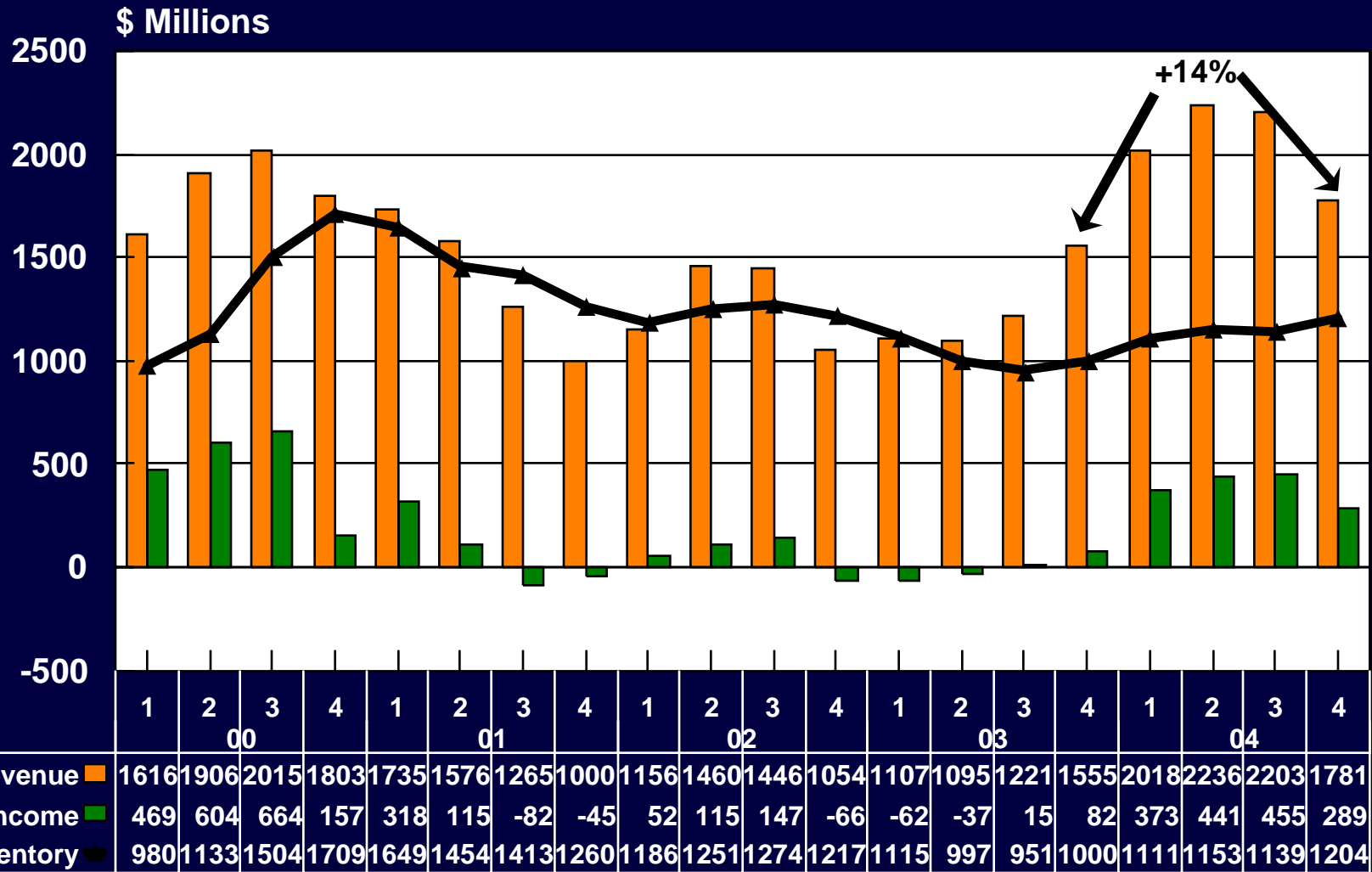
FY ends September

CY

KLIC

Applied Materials

Revenue, Net Income & Inventory



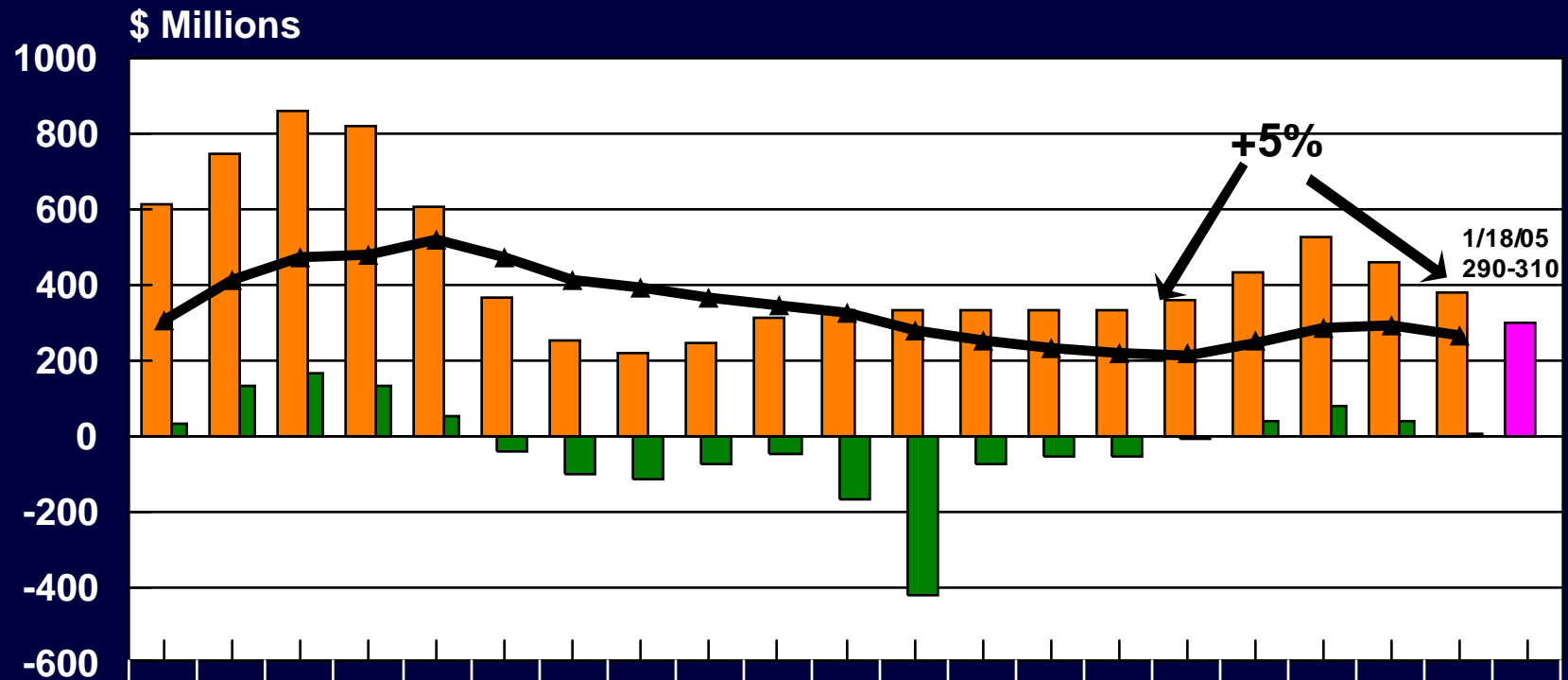
CY

AMAT

Teradyne

Revenue, Net Income & Inventory

"Despite a slight increase in orders in the fourth quarter, customer demand remains tentative. Our competitive position in the System On a Chip test market was strengthened in 2004, and we're continuing to aggressively fund our FLEX R&D program. At the same time, we're reducing costs across a number of areas in the company." 1/18/05

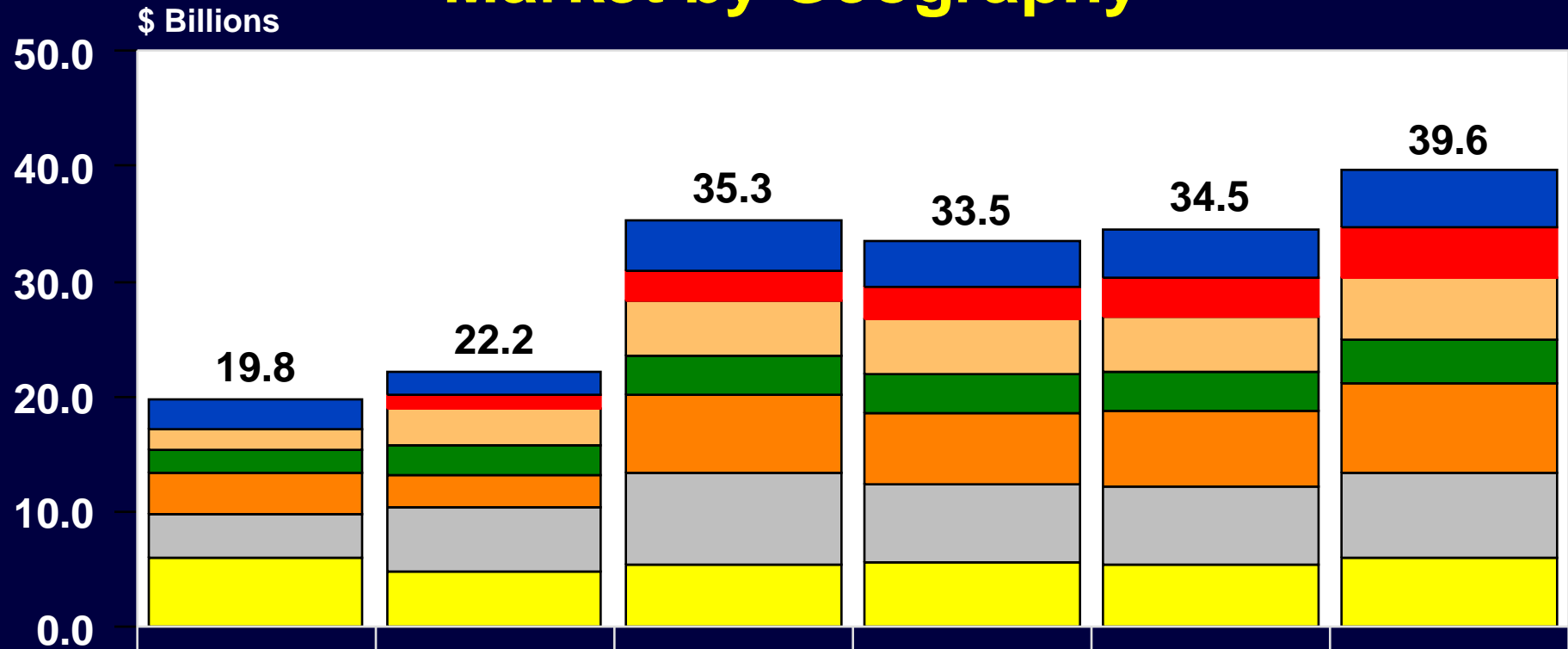


	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
	00				01				02				03				04				05
Revenue	615	747	859	822	605	366	249	220	248	310	331	334	335	332	329	358	431	526	458	377	300
Income	29	129	163	132	54	-40	-103	-113	-77	-51	-167	-424	-76	-52	-54	-11	40	80	41	3	
Inventory	308	412	473	478	520	475	413	395	364	342	327	280	252	234	221	215	248	284	292	263	

CY

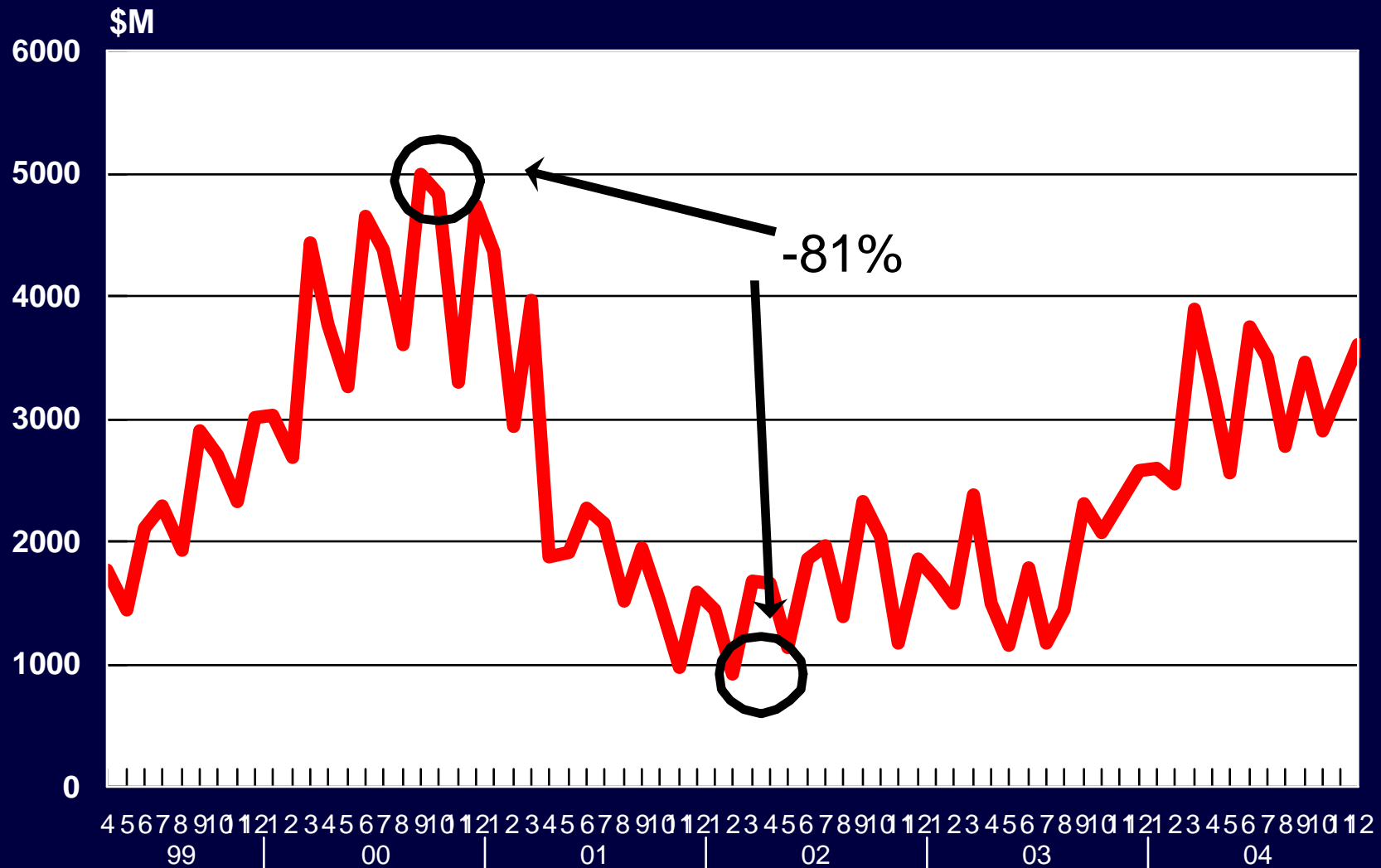
TER

Worldwide Semiconductor Capital Equipment Market by Geography



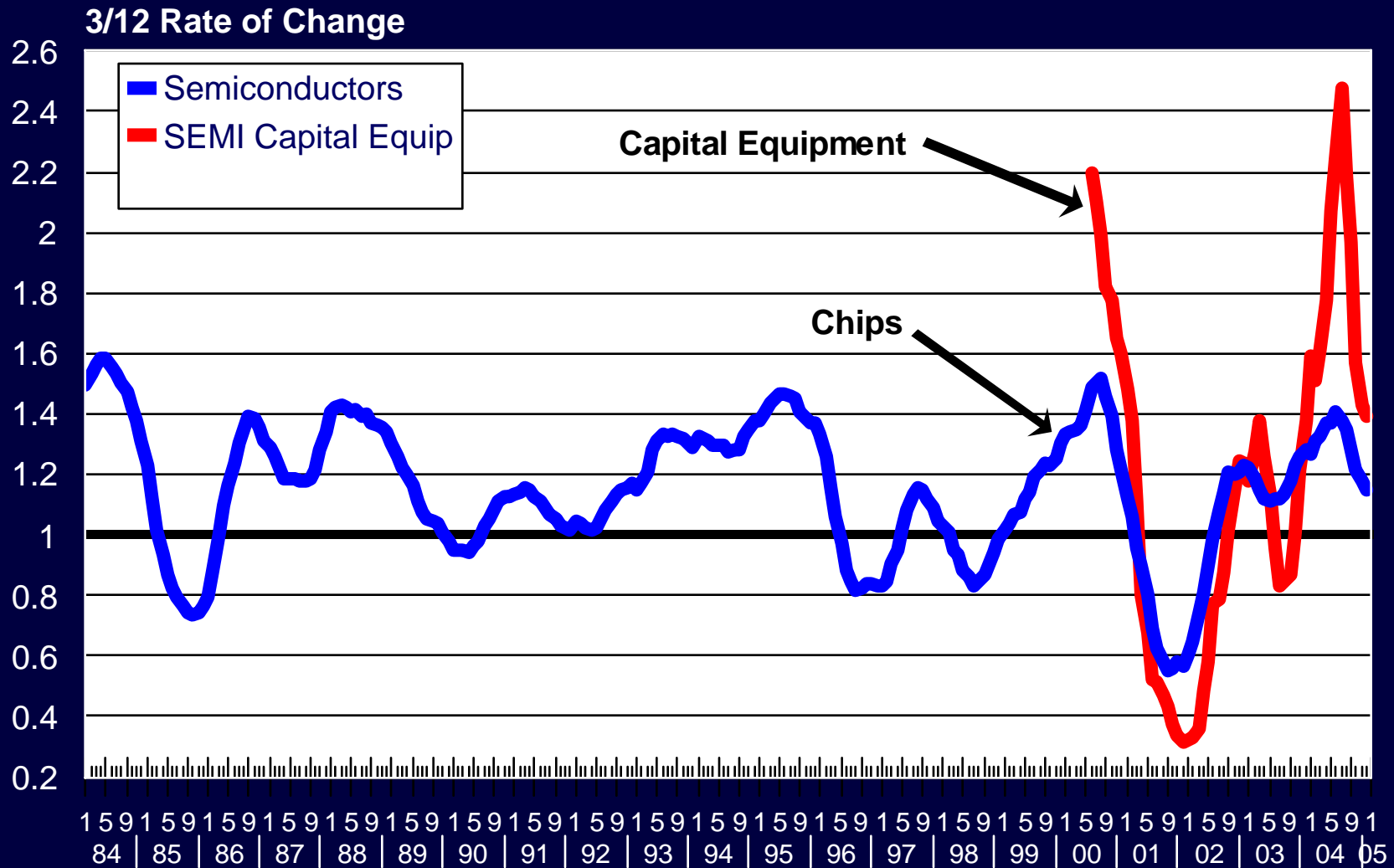
	2002	2003	2004	2005	2006	2007
ROW	2.7	2.1	4.3	4.1	4.3	5.0
China		1.2	2.6	2.7	3.3	4.2
S Korea	1.7	3.2	4.8	4.8	4.8	5.5
Europe	2.1	2.6	3.4	3.4	3.4	3.7
Taiwan	3.5	2.9	6.8	6.2	6.6	7.8
Japan	3.9	5.6	7.9	6.8	6.7	7.4
N America	5.9	4.7	5.5	5.5	5.5	6.1

World Semiconductor Equipment Industry Shipments



SOURCE Semiconductor Equipment Association of Japan
www.seaj.or.jp/english/

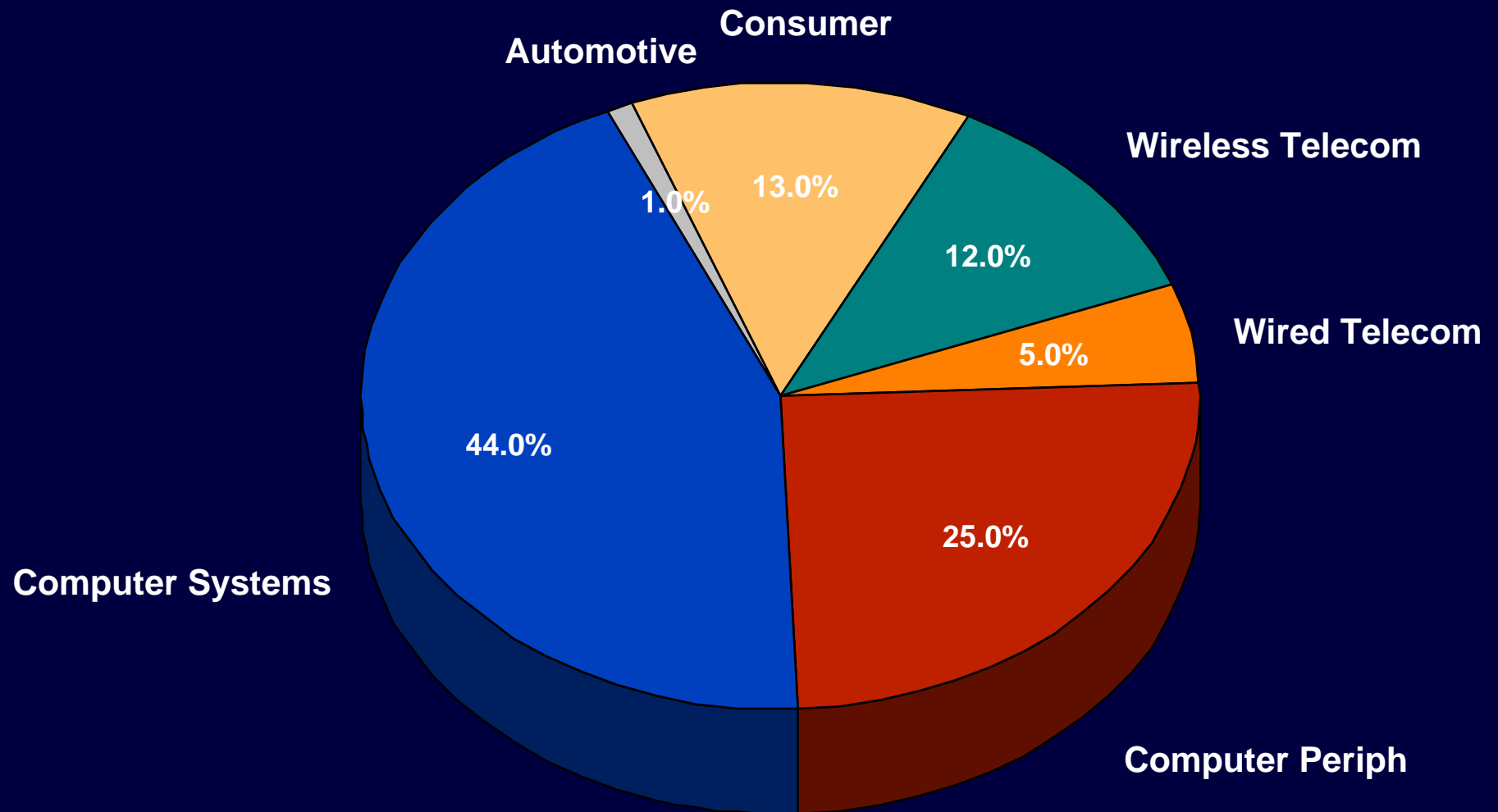
Global Semiconductor & Semiconductor Capital Equipment 3-Month Shipment Growth Rates on \$ Basis



Sources: SIA; Semiconductor Equipment Association of Japan

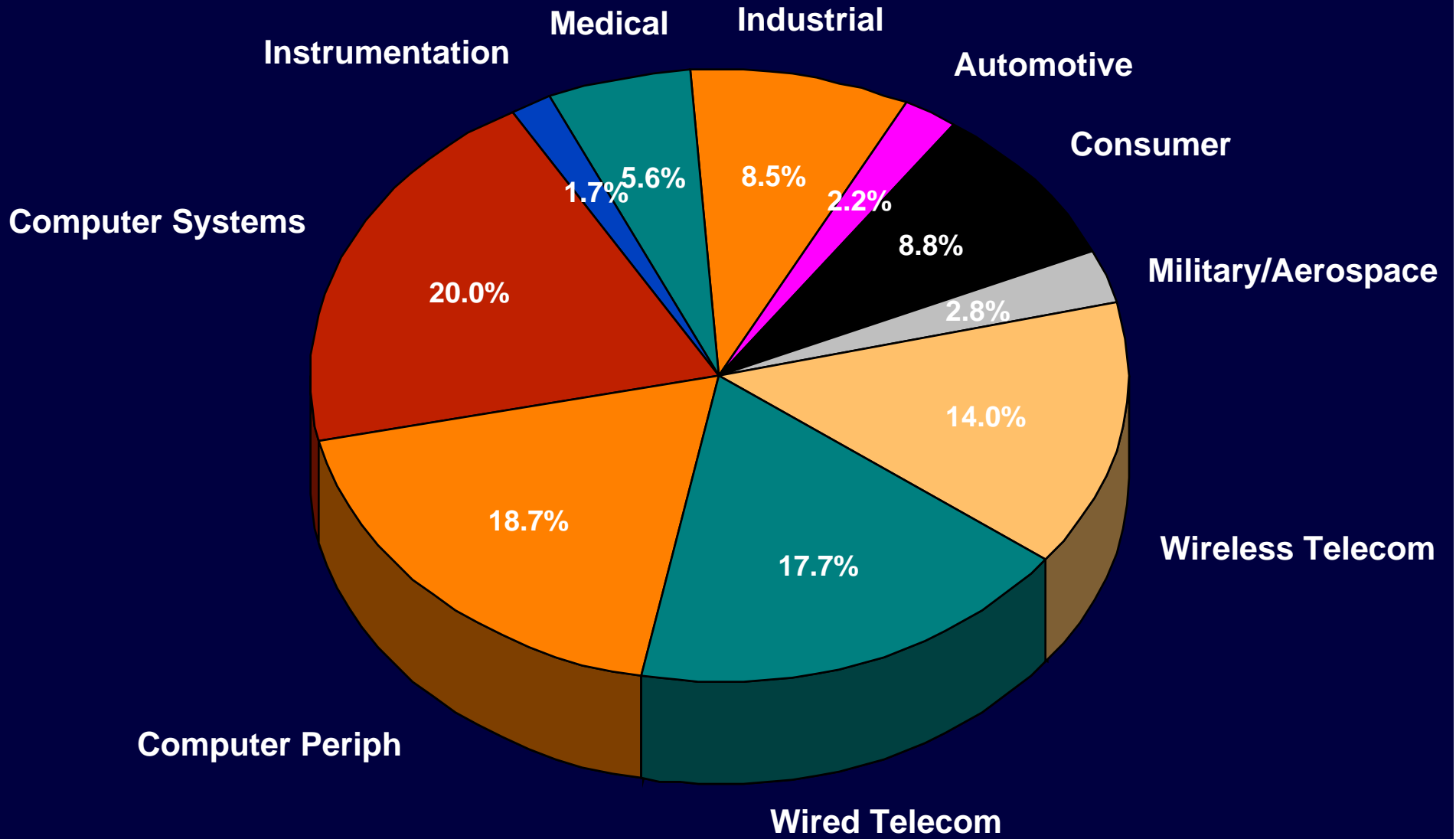
EMS & ODM Companies

ODM Segment by Revenue 2003

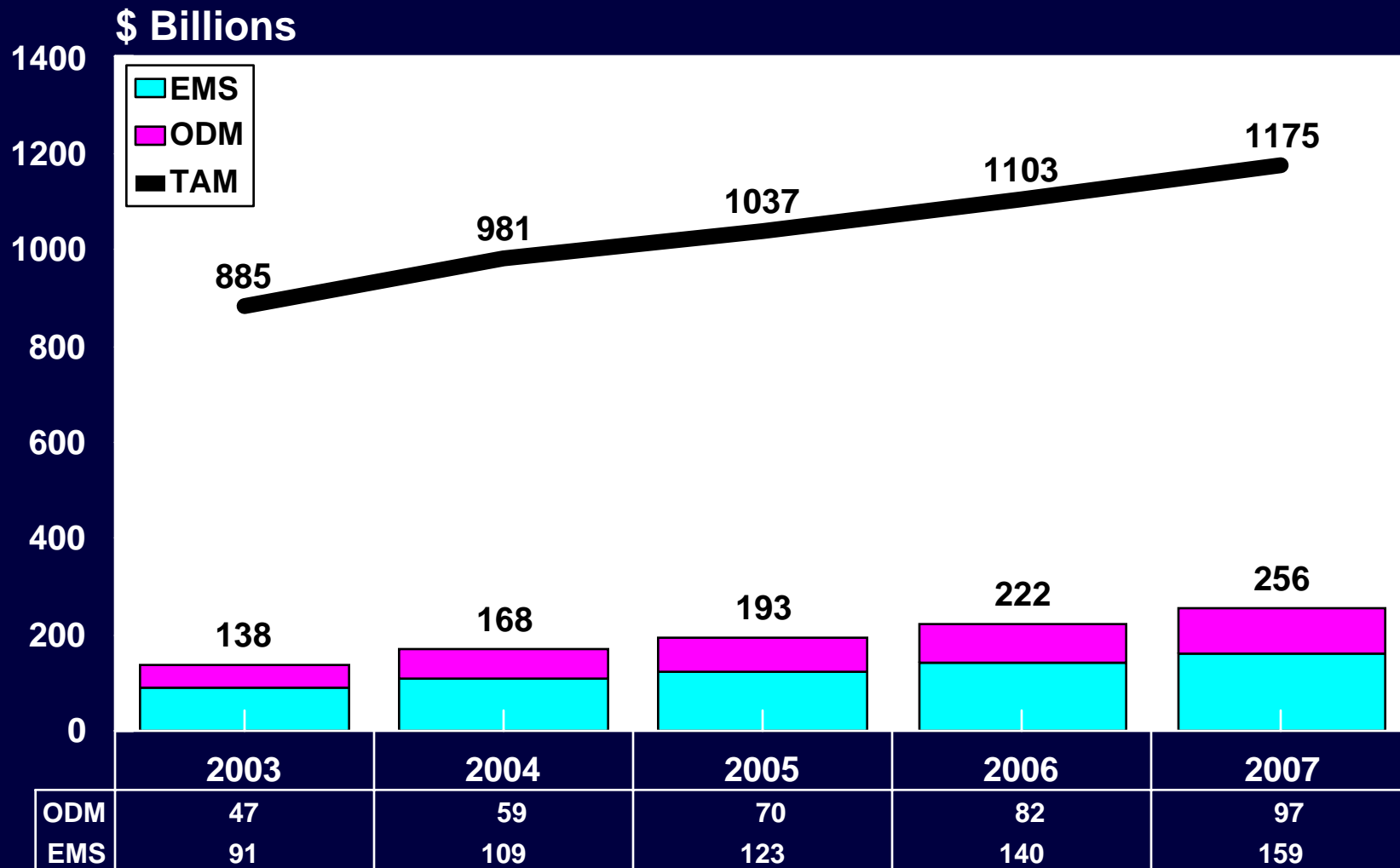


EMS Segment by Revenue

2003



EMS & ODM Estimated Global Revenue vs. Total Available Market



Large World EMS Providers

2002 vs 2003

		<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2004/2003</u> <u>Growth %</u>
Flextronics	Singapore	13,615	13,822	16,050	16%
Sanmina-SCI	USA	10,168	10,795	12,650	17%
Solectron	USA	12,261	11,144	11,950	7%
Hon Hai (Foxconn)	Taiwan	7,251	9,705	11,700	21%
Celestica	Canada	8,272	6,736	8,760	30%
Jabil Circuit	USA	3,729	5,170	6,400	24%
Elcoteq Network	Finland	1,749	2,564	3,100	21%
Benchmark Electronics	USA	1,630	1,840	2,000	9%
Venture	Singapore	1,333	1,829	1,750	-3%
Universal Scientific	Taiwan	820	1,011	1,400	39%
Plexus	USA	889	841	1,100	31%
Total		61,717	65,457	75,860	+17%

2004: Estimated based on 1-3Q actual plus company 4Q guidance or Custer estimate based upon historic 4Q seasonality

Sources: Company Data

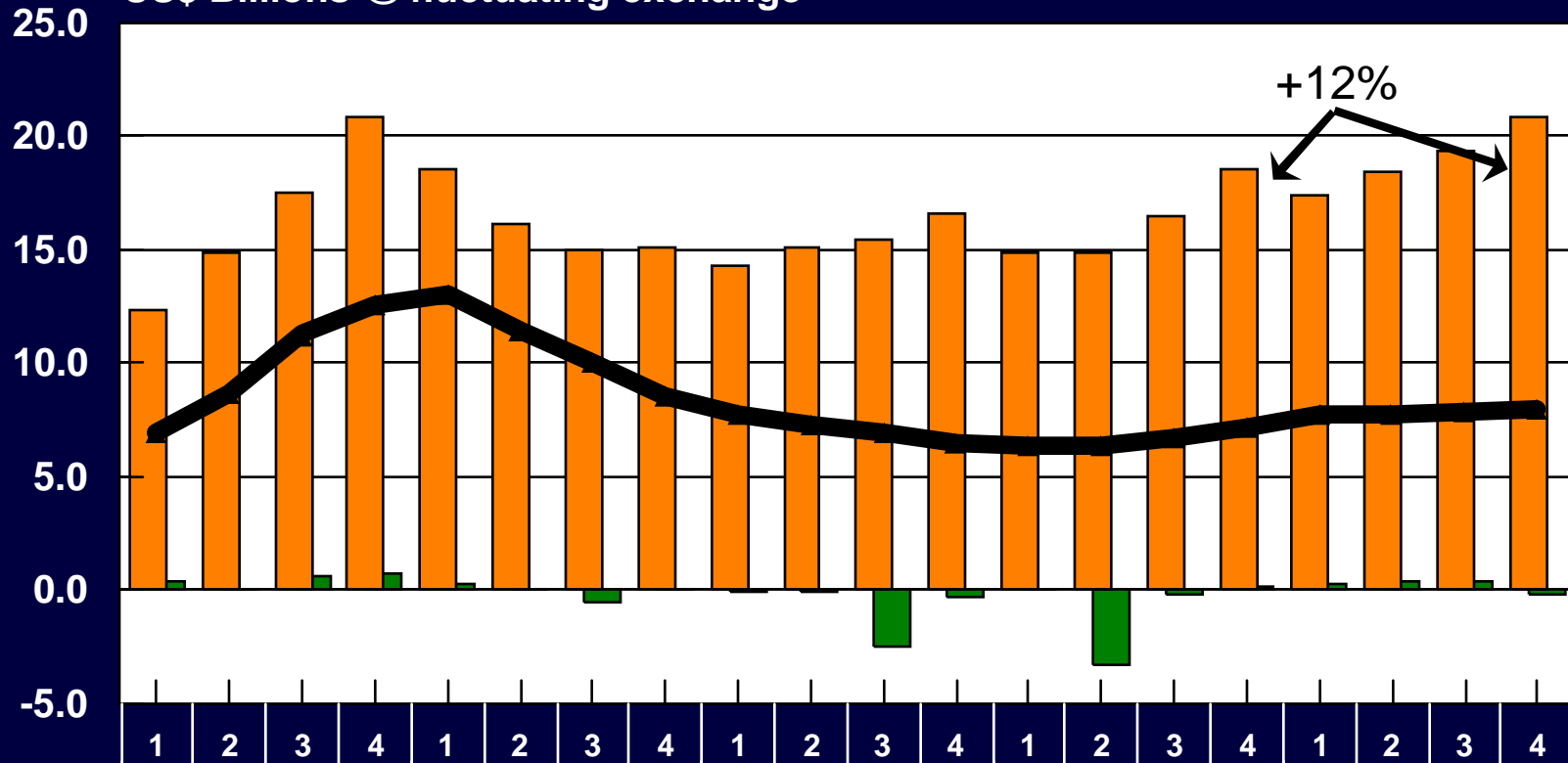
\$US Millions converted at fluctuating exchange

Large EMS Providers

Composite of 12 Public Companies

Revenue, Net Income & Inventory

US\$ Billions @ fluctuating exchange

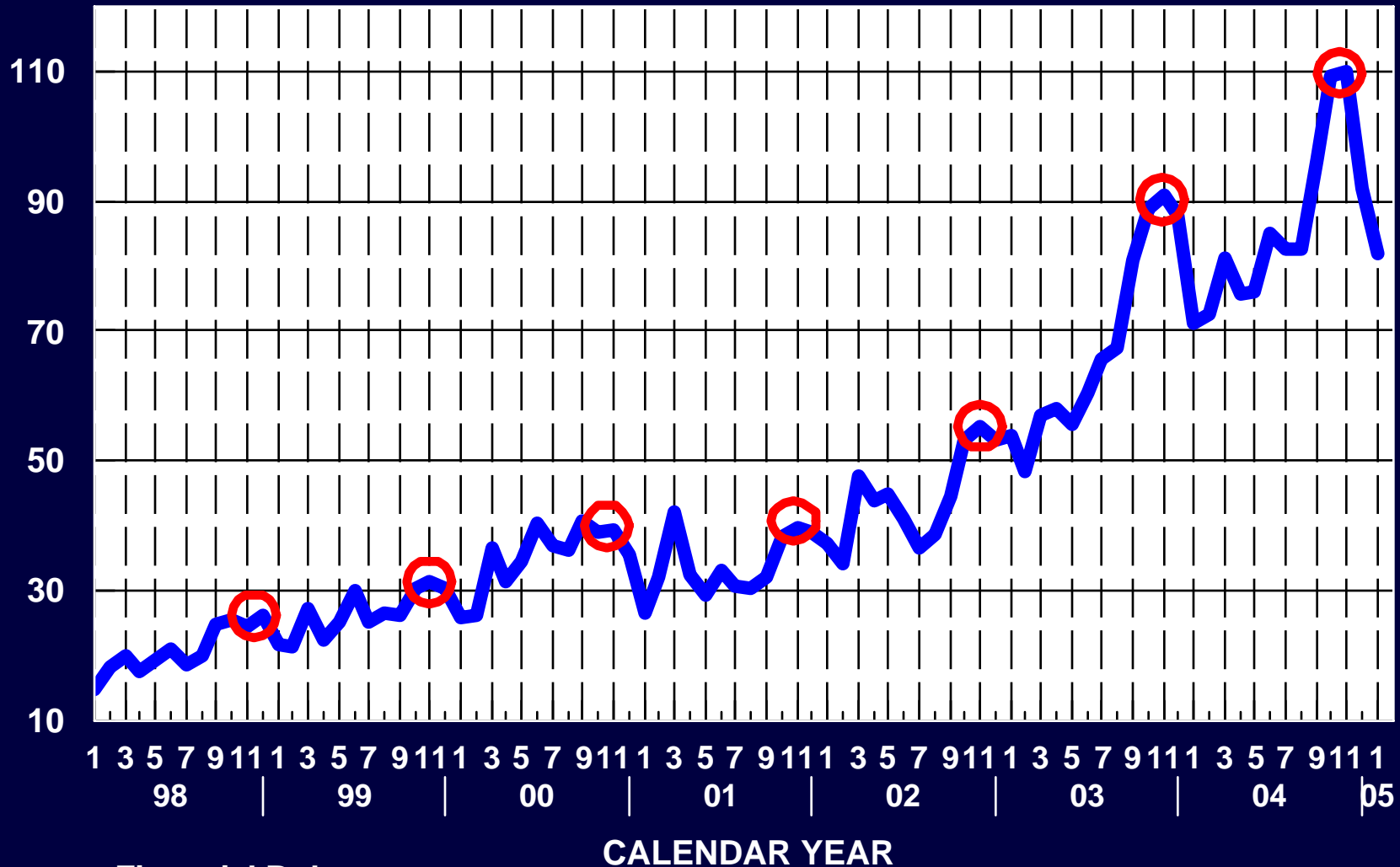


	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	00				01				02				03				04			
Revenue	12.3	14.9	17.5	20.8	18.5	16.1	14.9	15.1	14.2	15.0	15.4	16.5	14.9	14.8	16.5	18.5	17.4	18.4	19.4	20.8
Income	0.4	-0.0	0.6	0.7	0.3	0.0	-0.6	0.0	-0.1	-0.1	-2.6	-0.3	0.1	-3.3	-0.2	0.1	0.3	0.4	0.3	-0.3
Inventory	6.9	8.6	11.2	12.5	13.0	11.4	10.0	8.5	7.7	7.2	6.9	6.4	6.4	6.4	6.7	7.1	7.7	7.8	7.9	8.0

Benchmark, Celestica, Elcoteq, Flextronics, Foxconn, Jabil, MSL, Pemstar, Plexus, Sanmina-SCI, Solectron, Sypris

Taiwan Electronic Equipment/ODM Manufacturers Composite Sales of 7 Large Manufacturers

NT\$ (Billions)



Company Financial Releases

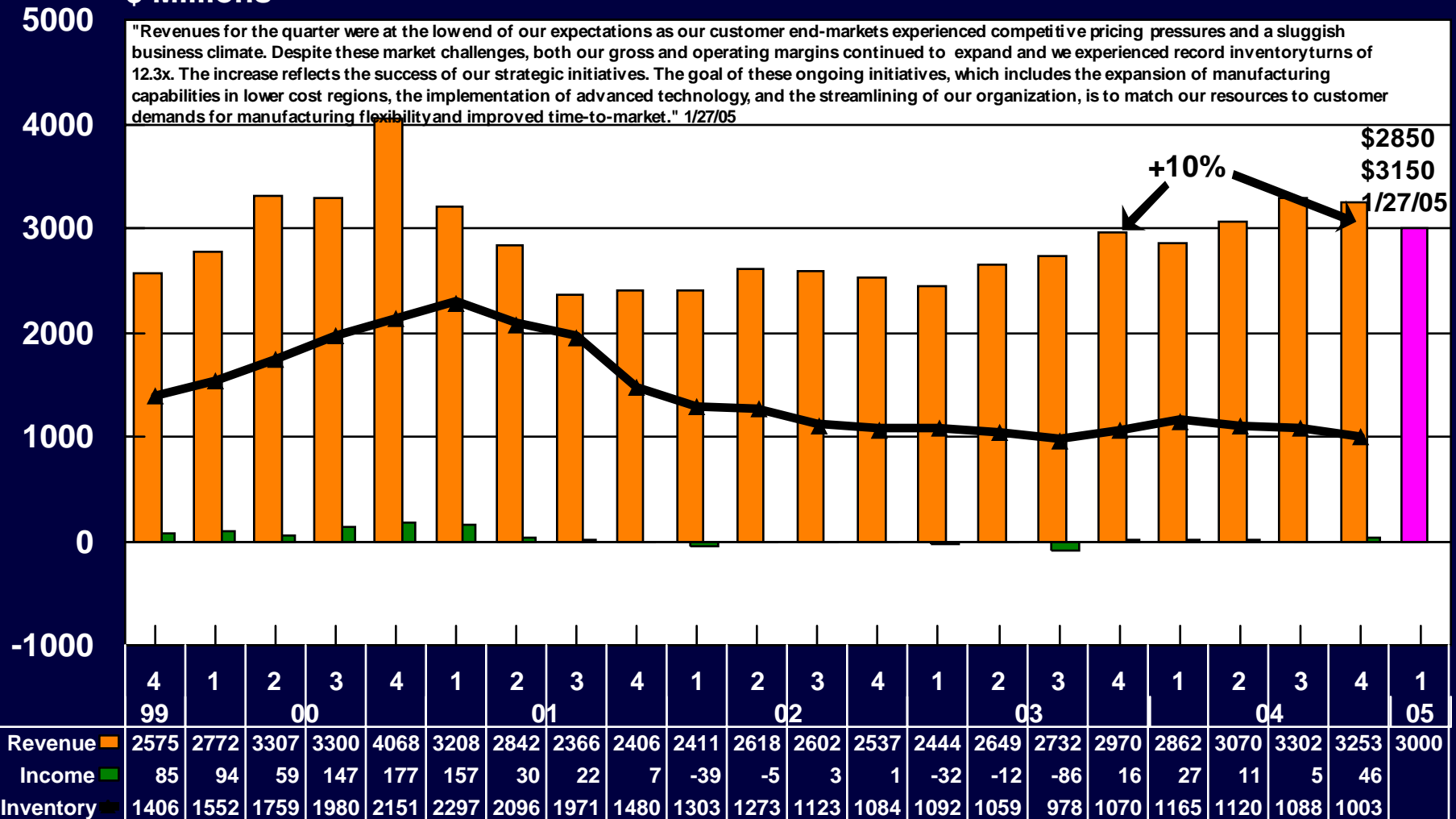
Acer, BenQ, Compal, First Intl Computer, Inventec, Mitac, Quanta

Sanmina-SCI Corp

Revenue, Net Income & Inventory

\$ Millions

"Revenues for the quarter were at the low end of our expectations as our customer end-markets experienced competitive pricing pressures and a sluggish business climate. Despite these market challenges, both our gross and operating margins continued to expand and we experienced record inventory turns of 12.3x. The increase reflects the success of our strategic initiatives. The goal of these ongoing initiatives, which includes the expansion of manufacturing capabilities in lower cost regions, the implementation of advanced technology, and the streamlining of our organization, is to match our resources to customer demands for manufacturing flexibility and improved time-to-market." 1/27/05



CY

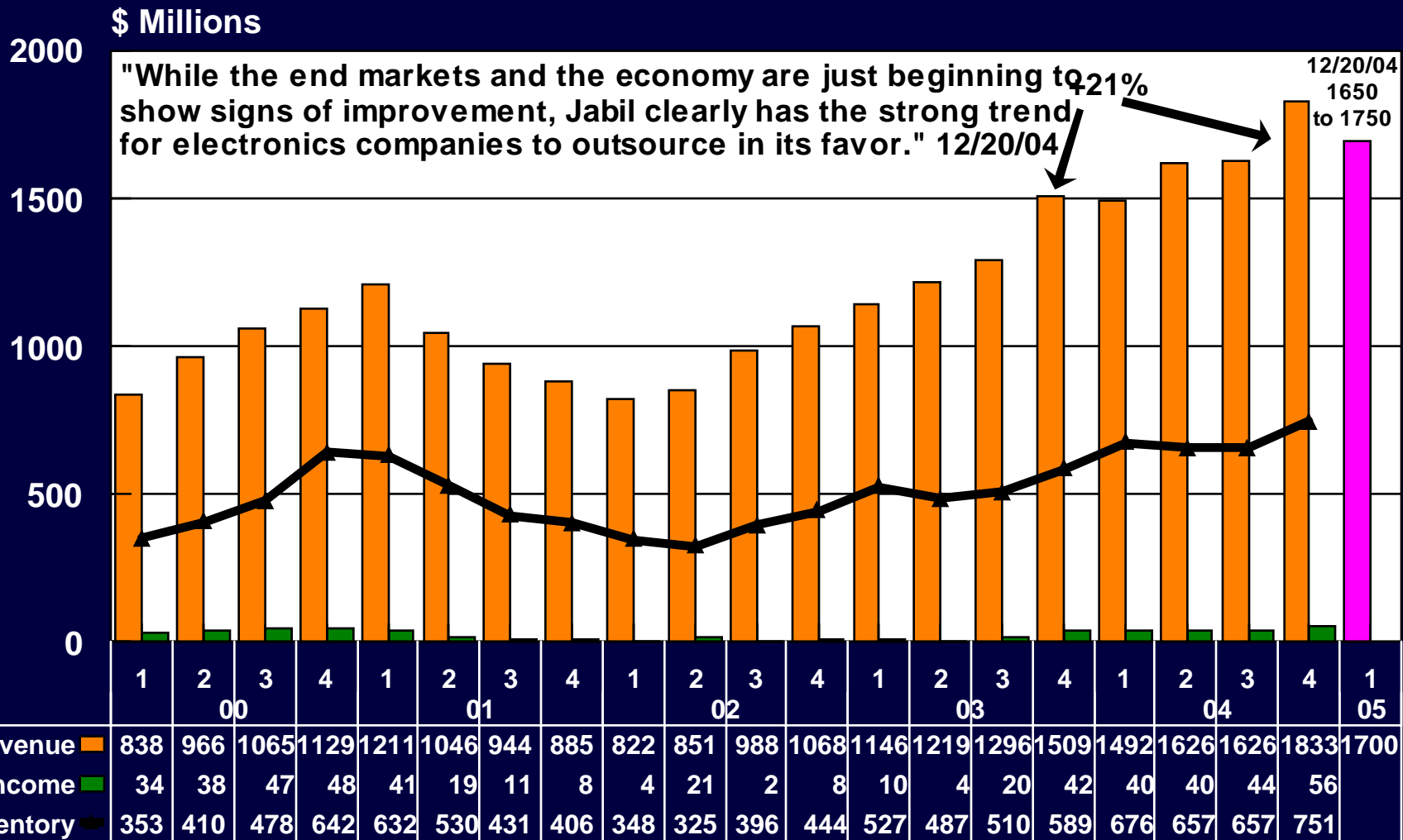
SANM

FY ends 9/30

(historical data = combined Sanmina & SCI)

Jabil Circuit Inc

Revenue & Net Income



CY

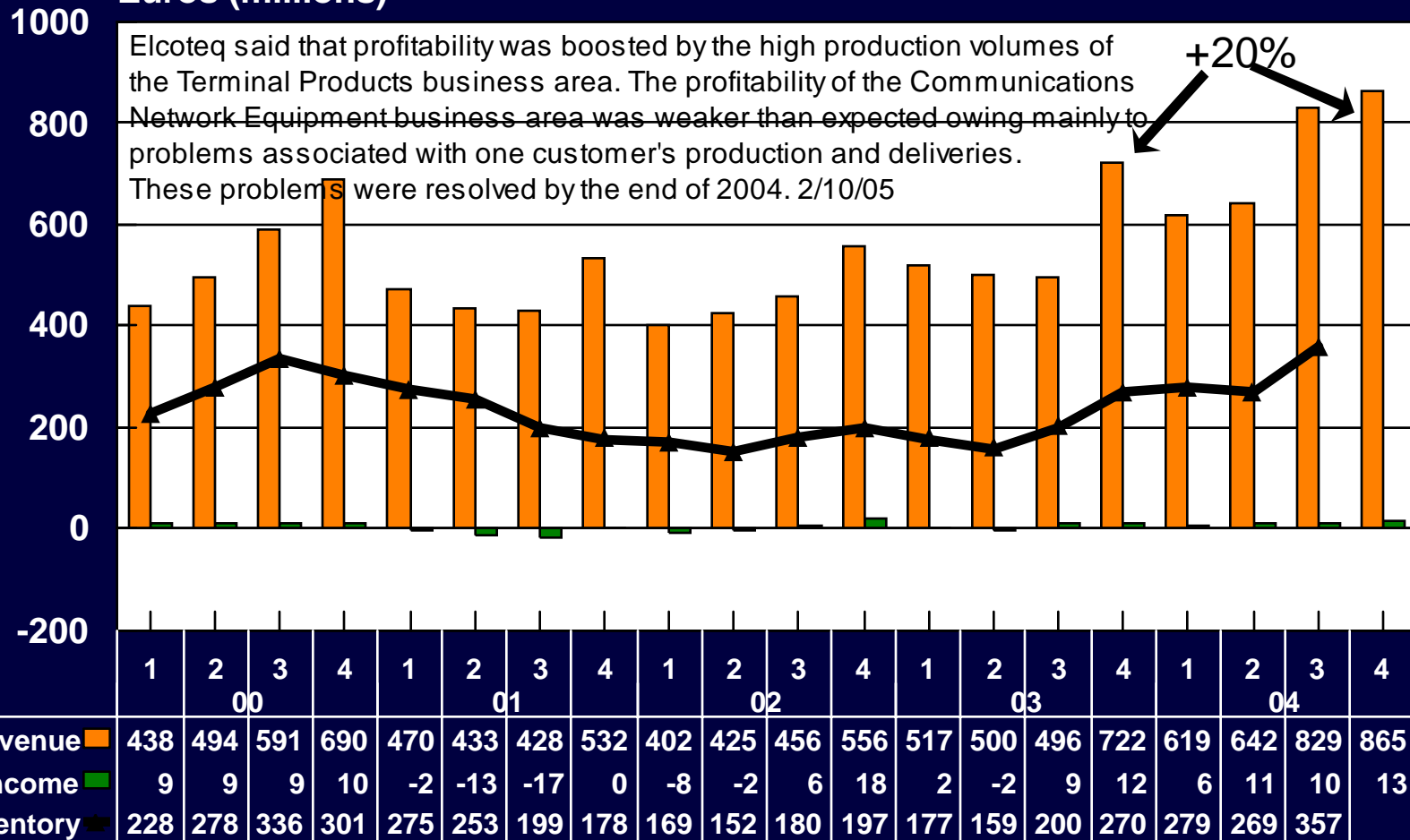
JBL

FY ends August

Elcoteq Network, Finland

Revenue, Net Income & Inventory

Euros (millions)



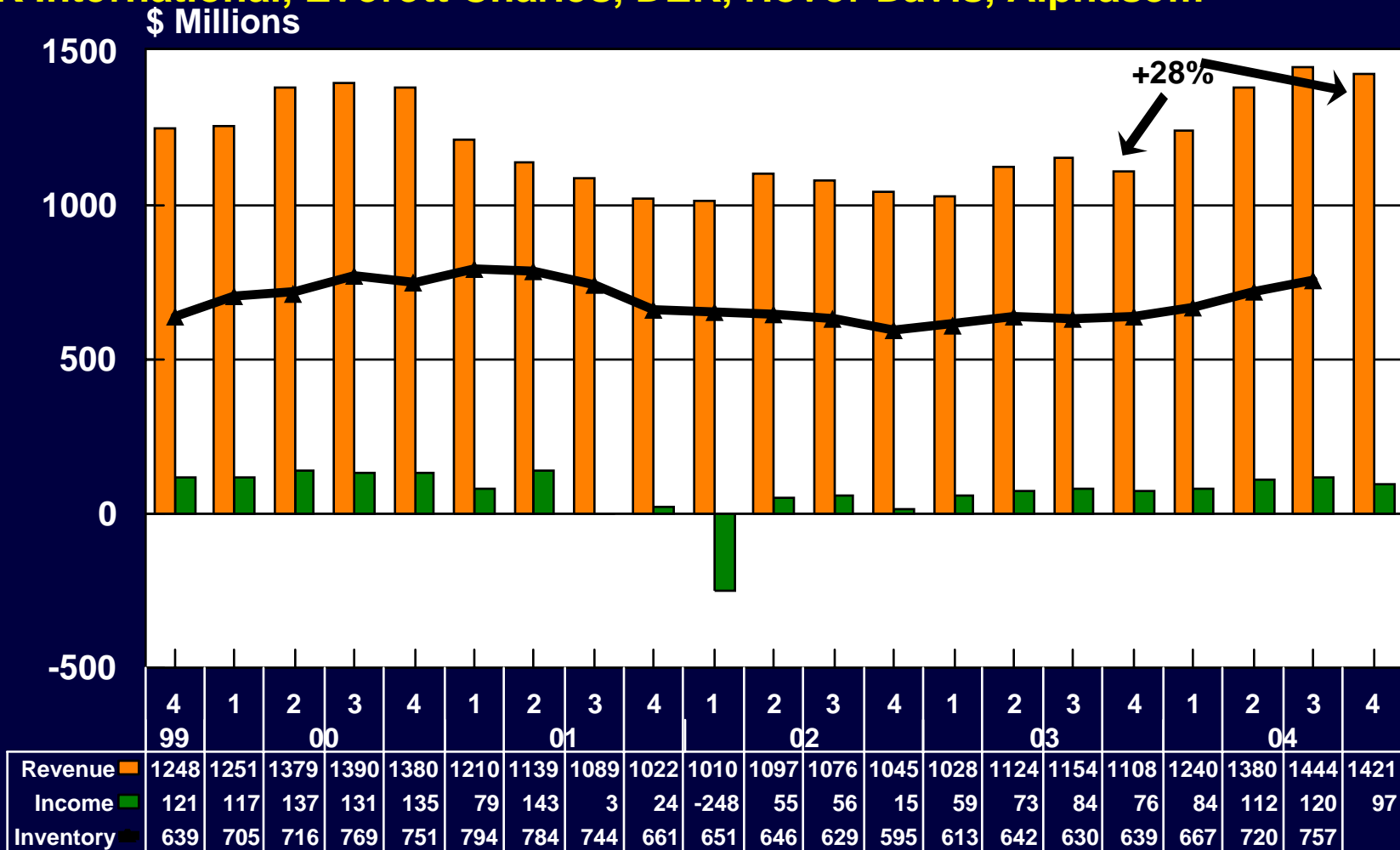
CY

**PCB
Assembly
Equipment**

Dover Corp

Revenue, Net Income & Inventory

includes: Universal Instruments, Vitronics Soltec, Vectron, Dielectric, Dow Key, OK International, Everett Charles, DEK, Hover Davis, Alphasem



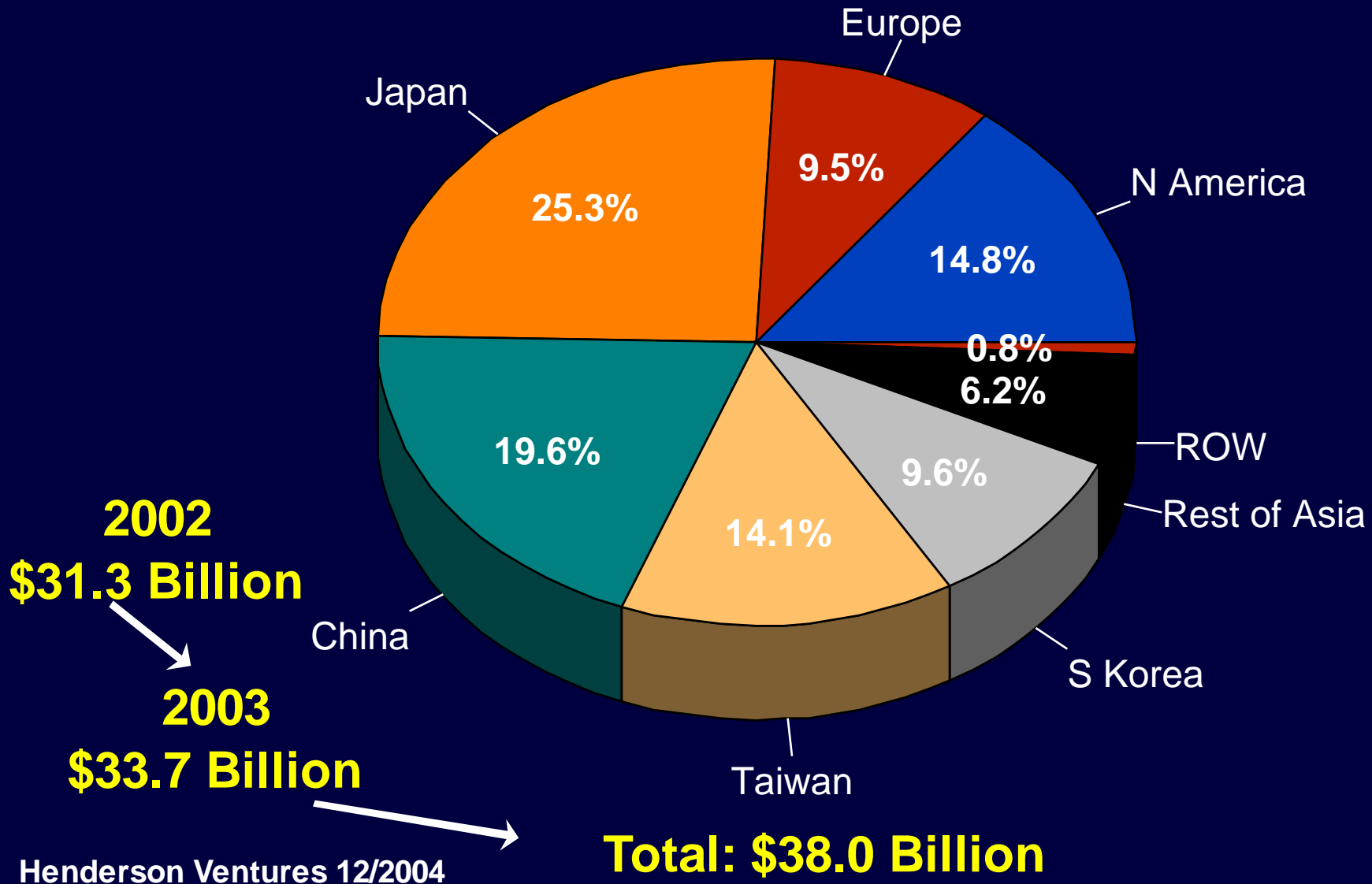
CY

DOV

PCB Fabrication

2004 World Rigid & Flex PCB Production by Geographical Area

(US\$ M @ Constant 2003 Exchange)



Top 25 World PCB Manufacturers (\$M)

	Company	2003	2002	Growth (%)
1.	Nippon Mektron	1175	968	21.4
2.	CMK	1049	1015	3.3
3.	Ibiden	1027	1017	1.0
4.	Hitachi Chemical	685	613	11.7
5.	Shinko Electric	636	458	38.9
6.	Unimicron	609	465	31.0
7.	Samsung Electro	545	469	16.2
8.	Compeq	462	515	-10.3
9.	Nanya PCB	453	354	28.0
10.	Daeduck Group	422	428	-1.4
11.	Viasystems Group	420	410	2.4
12.	Fujikura	400	340	17.6
13.	Sanmina-SCI	360	395	-8.9
14.	Multek	350	380	-7.9
15.	AT&S	345	312	10.6
16.	Tyco PCB	330	335	-1.5
17.	MACO (Matsushita)	318	304	4.6
18.	Kyoden Group	315	257	22.6
19.	Korea Circuit Group	310	280	10.7
20.	LG Electronics	305	265	15.1
21.	Toppan-NEC	300	298	0.7
22.	Nitto Denko	300	254	18.1
23.	Elec & Eltek	282	238	18.5
24.	3M	270	240	12.5

Top 10 PCB Companies

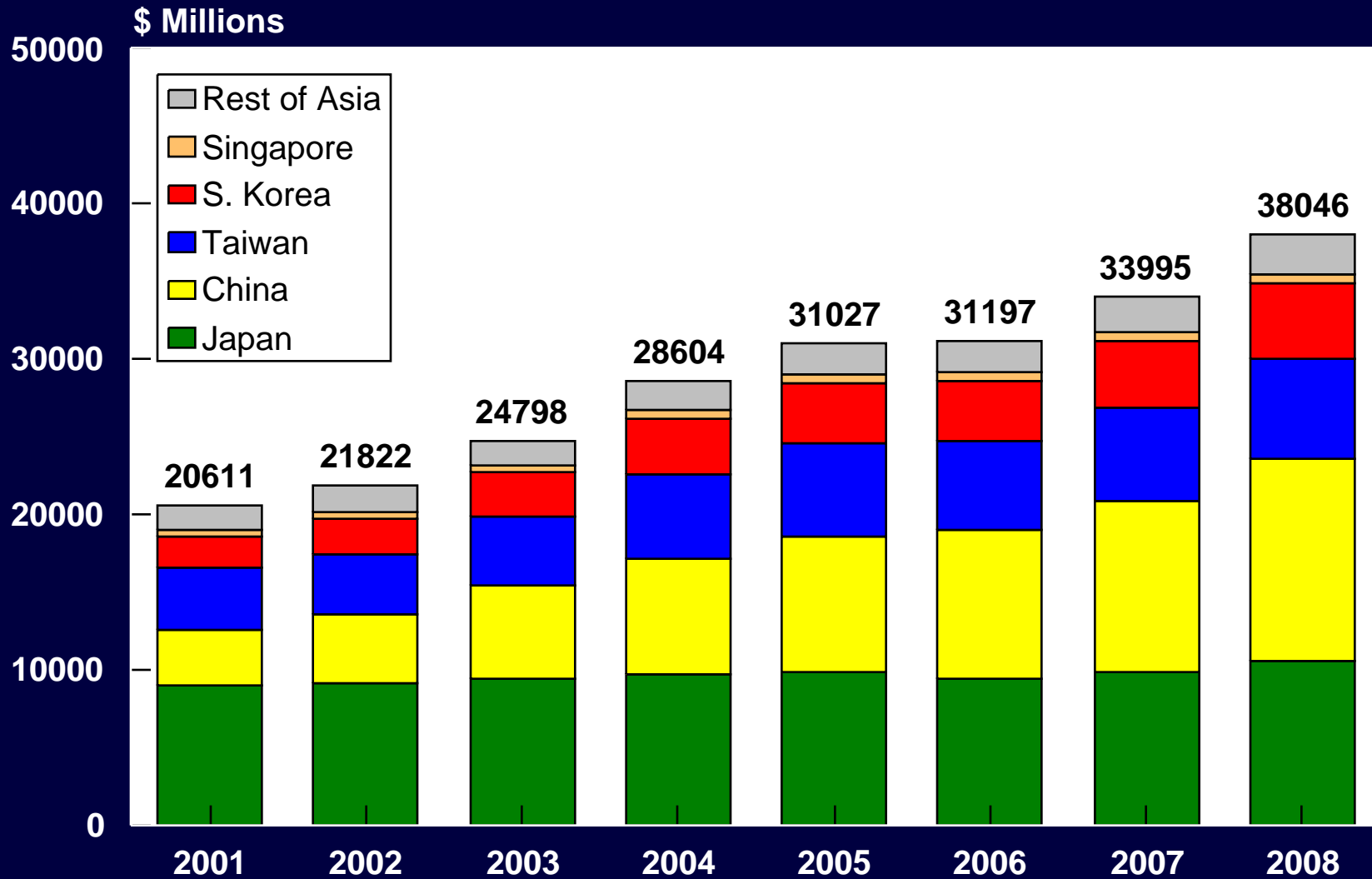
2000 vs 2003

2000				2003			
			US\$M				US\$M
1	Sanmina-SCI	US	1,500	1	Nippon Mektron	JP	1,117
2	Viasystems	US	1,250	2	CMK	JP	1,049
3	CMK	JP	1,112	3	Ibiden	JP	1,027
4	Ibiden	JP	1,083	4	Hitachi Group	JP	685
5	Hitachi Group	JP	973	5	Shinko Denki	JP	636
6	Nippon Mektron	JP	905	6	Unimicron	TW	609
7	Compeq	TW	802	7	Samsung E-M	KR	545
8	Tyco	US	780	8	Compeq	TW	462
9	Fujitsu	JP	624	9	Nanya PCB	TW	453
10	Multek	US	600	10	Daeduck Group	KR	422
	Top 10 Total		9,629				7,005

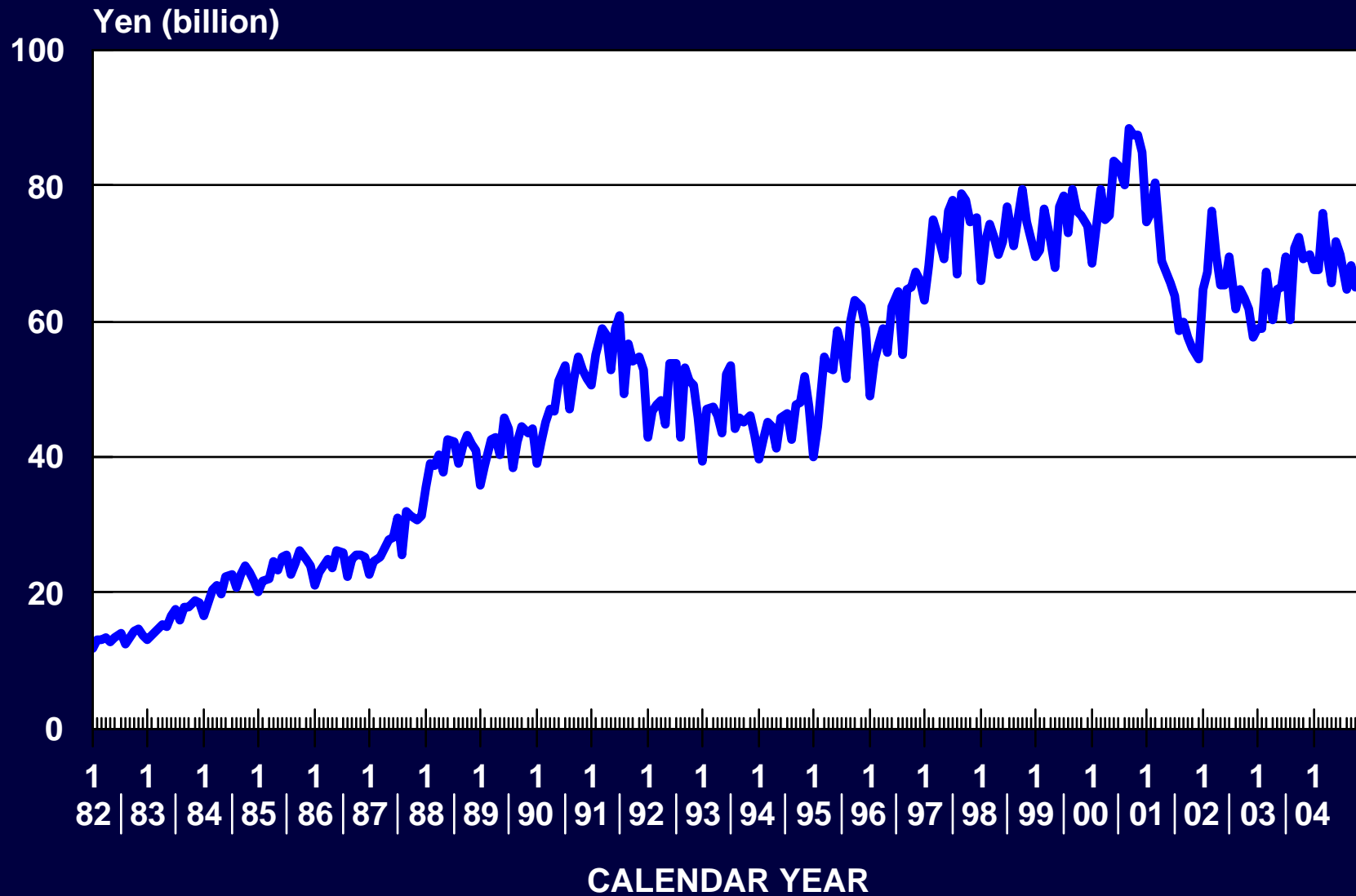
Dr Hayao Nakahara, N.T. Information Ltd, 12/04

Asian PCB Production

Current \$ converted @ 2003 Exchange Rates



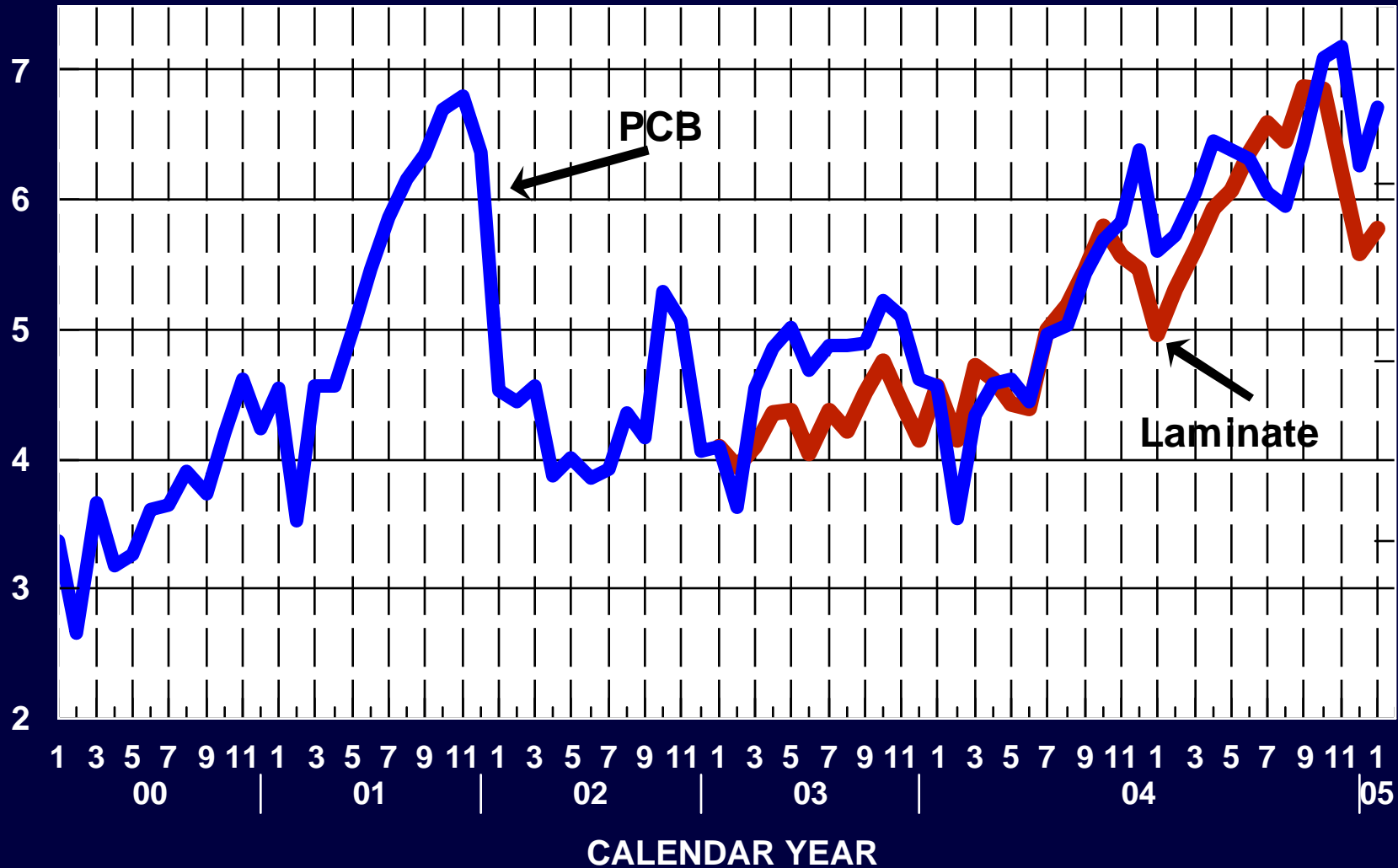
Japan PCB Shipments



Taiwan Rigid PCB vs Laminate Shipments Composite of Large Manufacturers

PCB NT\$ Billions

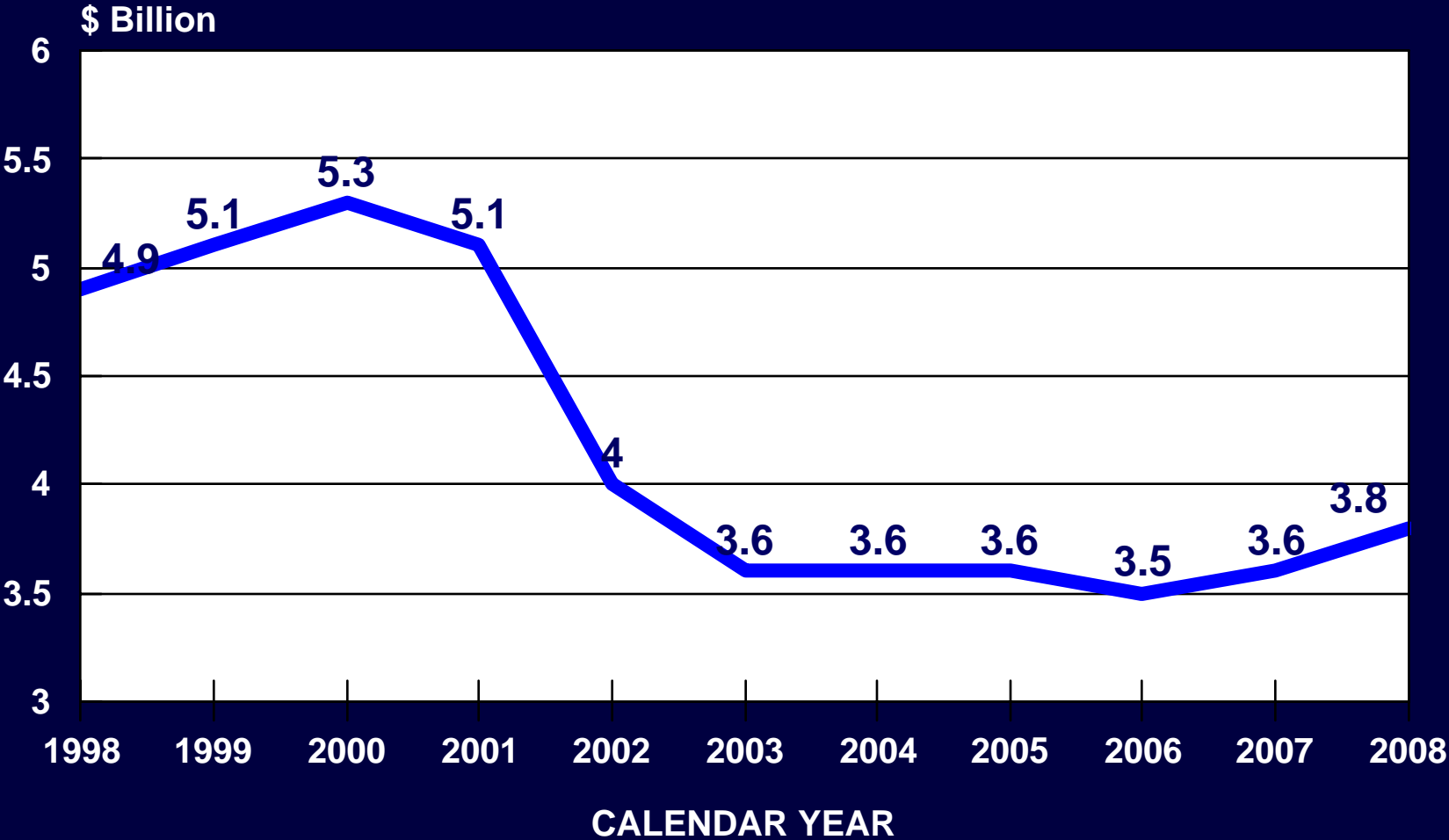
Laminate NT\$ (relative)



Company Financial Releases

PCB Production in Europe

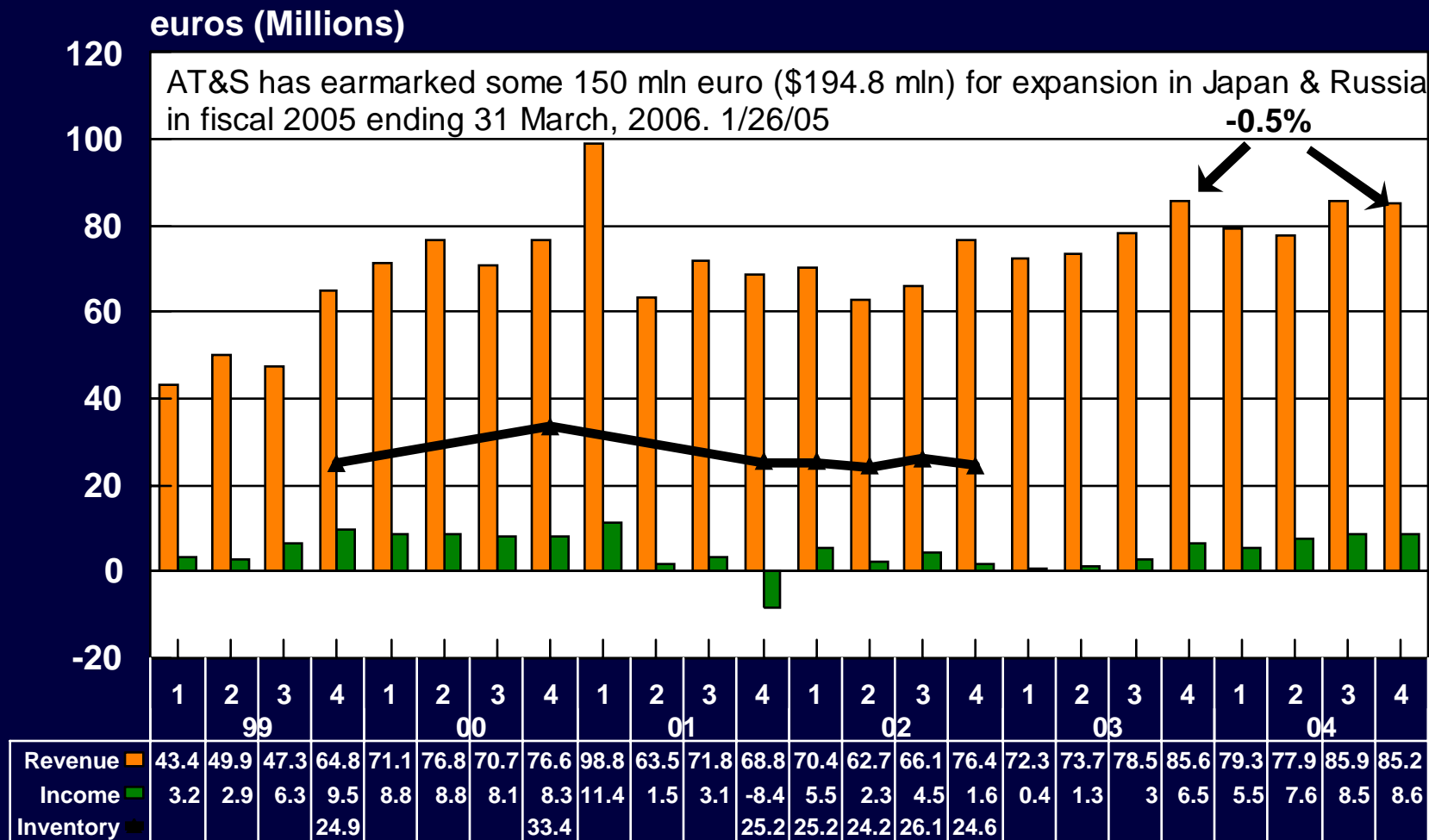
\$ Billion (constant exchange)



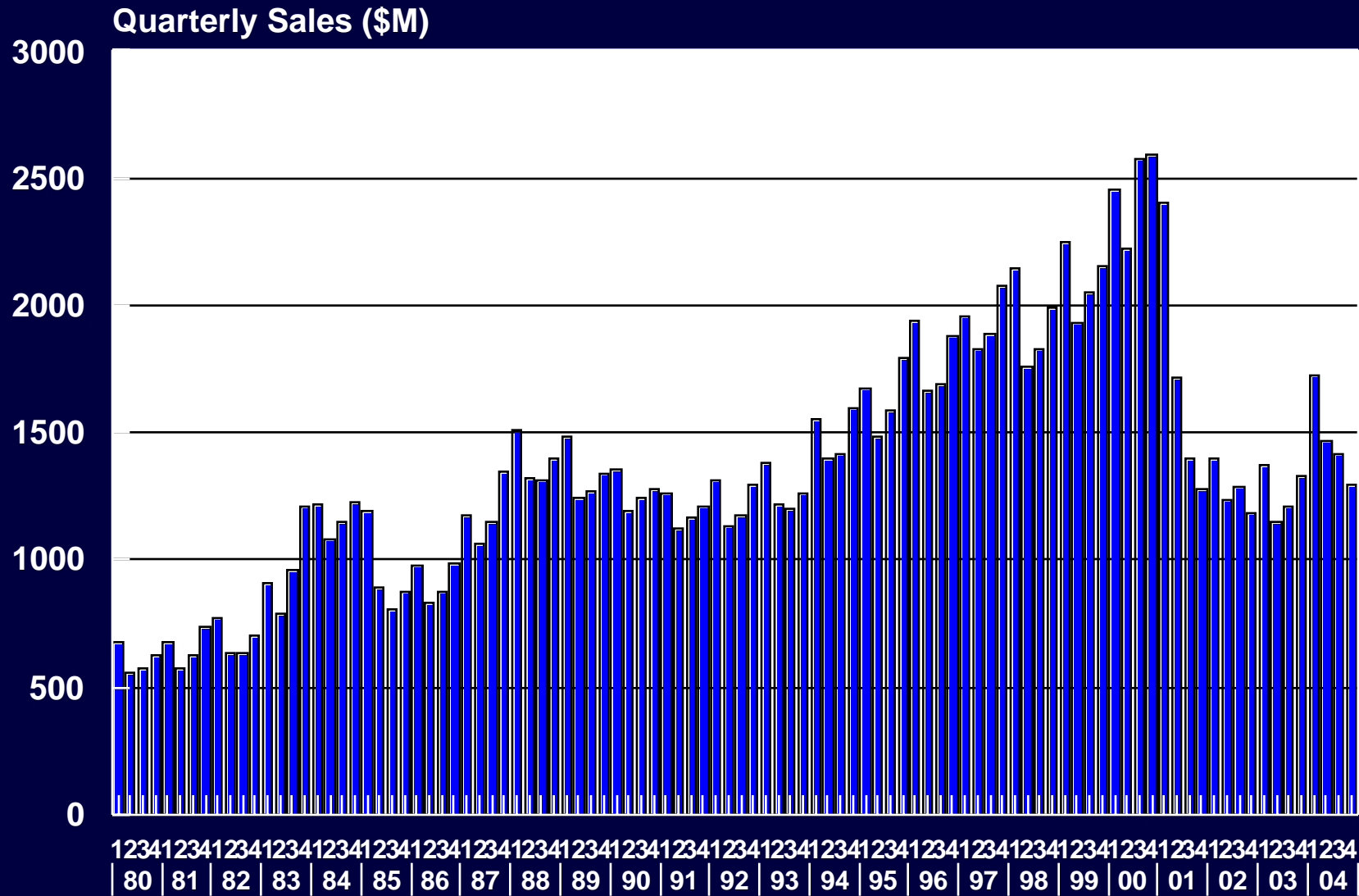
AT&S, Austria

Revenue, Income & Inventory

“We have been able to strengthen our position in the market this quarter in regards to both our customers and our products. We cannot change the fact that the dollar cost us turnover. But, the fact that our profit still grew 129% in the first three quarters demonstrates what would be possible with a positive dollar development” 1/20/05



N. AMERICAN RIGID PCB SHIPMENTS



IPC T/MRC data with Custer interpretation

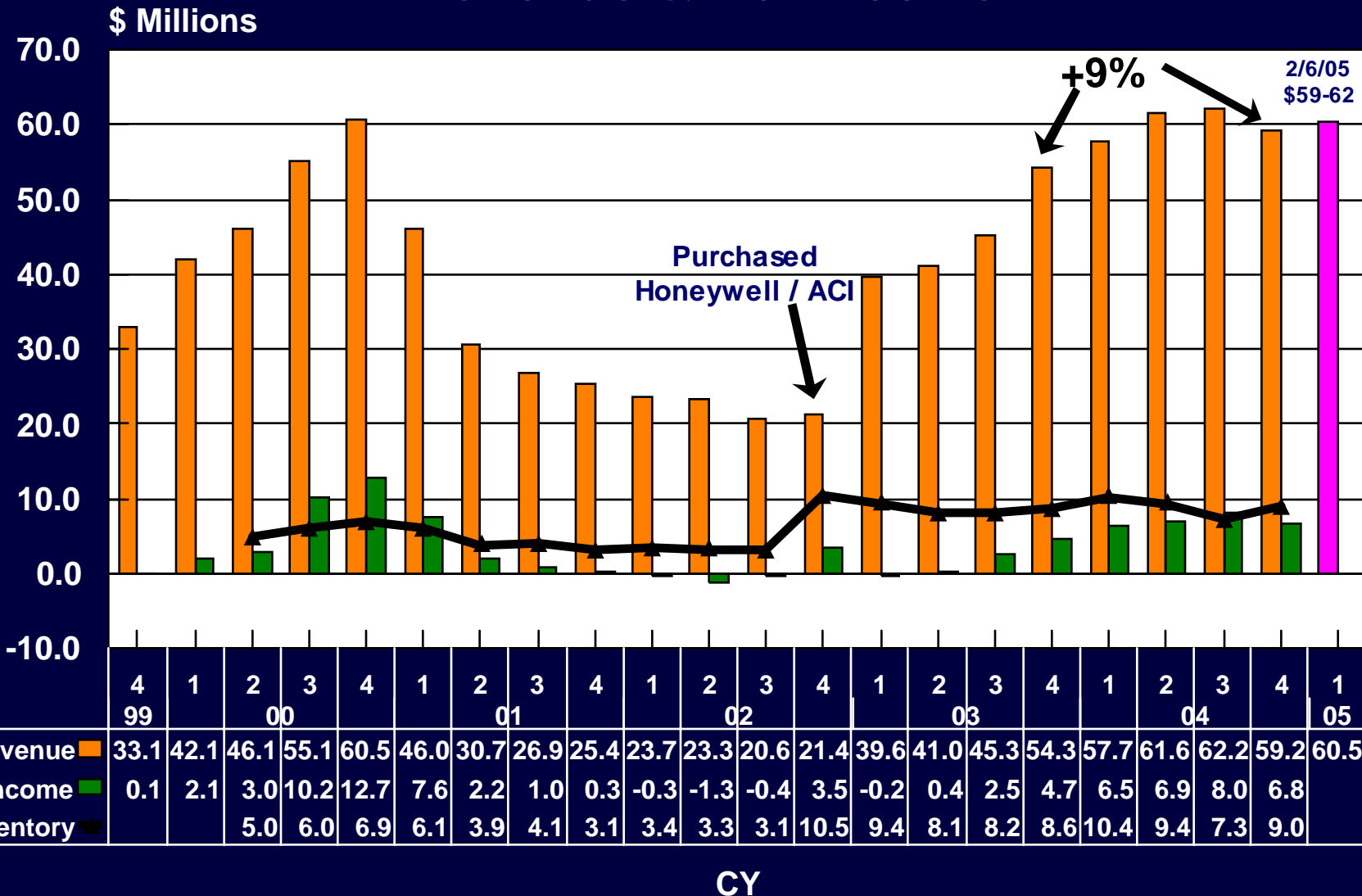
TOP N AMERICAN PCB MANUFACTURERS

PCB FAB - 2003

PCB \$M

	PCB \$M	
VIASYSTEMS	420	
SANMINA-SCI	360	
MULTEK	350	
TYCO	330	Sales in blue
MMM-3M	270	include
PHOTOCIRCUITS	234	significant
DDi	195	offshore
TTM	180	production
INNOVEX	160	
M-FLEX	146	
HUTCHINSON	120	
MERIX	113	
EIT (Endicott Interconnect Tech)	110	
PARLEX	82	
TERADYNE	68	
CORETEC	52	
NORTHROP GRUMMAN	50	
UNICIRCUIT	45	
AMITRON	32	

TTM Technologies Revenue & Net Income



"We are very pleased with our performance in 2004, which was highlighted by strong sales growth, expanded profitability, and the continued success of our time and technology strategy. "We continue to generate strong cash flow and ended the year with cash and short-term investments of \$58.5 million and no debt." 2/6/05

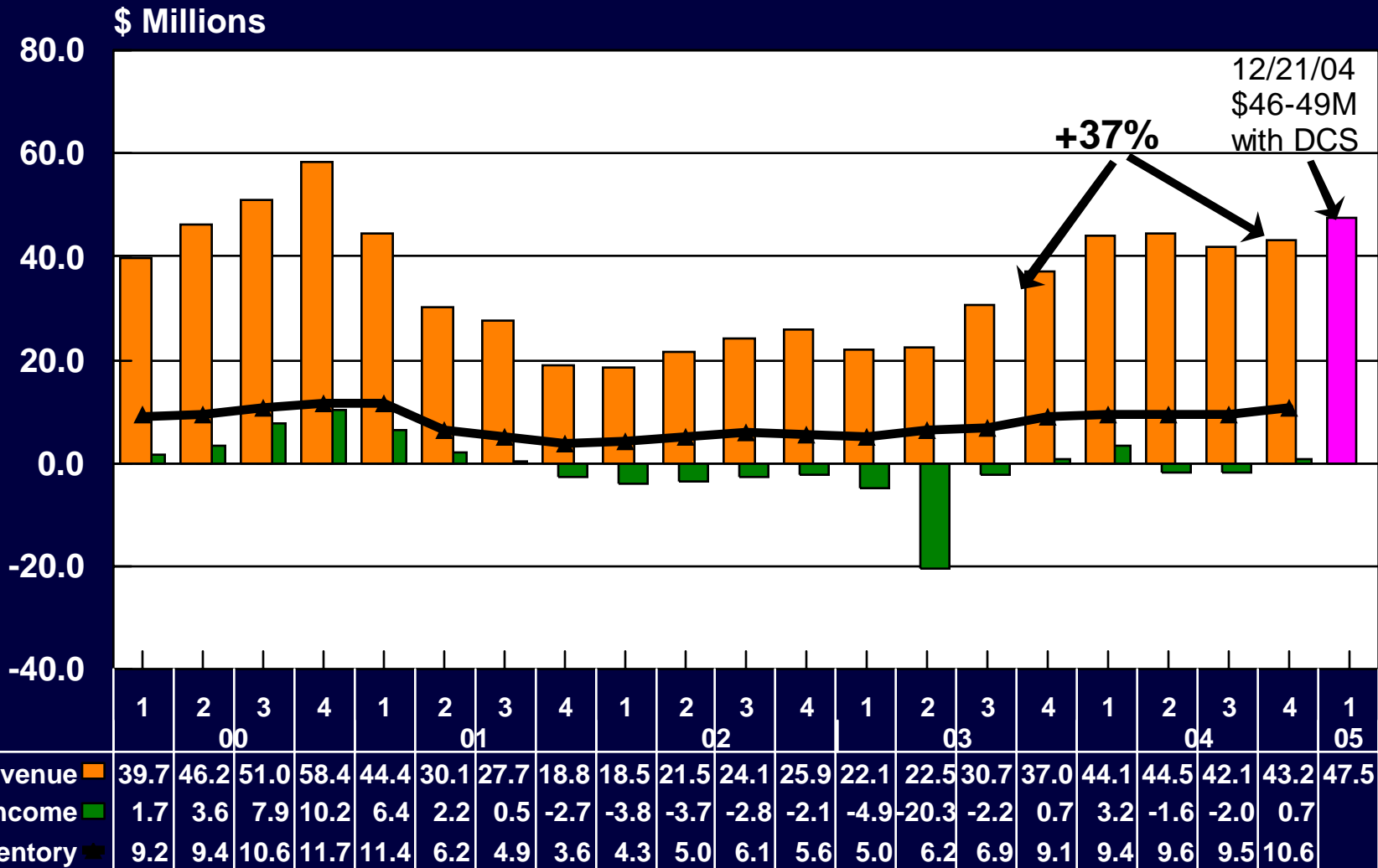
TTMI

FY=CY

Merix

Revenue, Net Income & Inventory

"With the acquisition of Data Circuit Systems, we have clearly accelerated the growth of our quick-turn business."
12/21/04



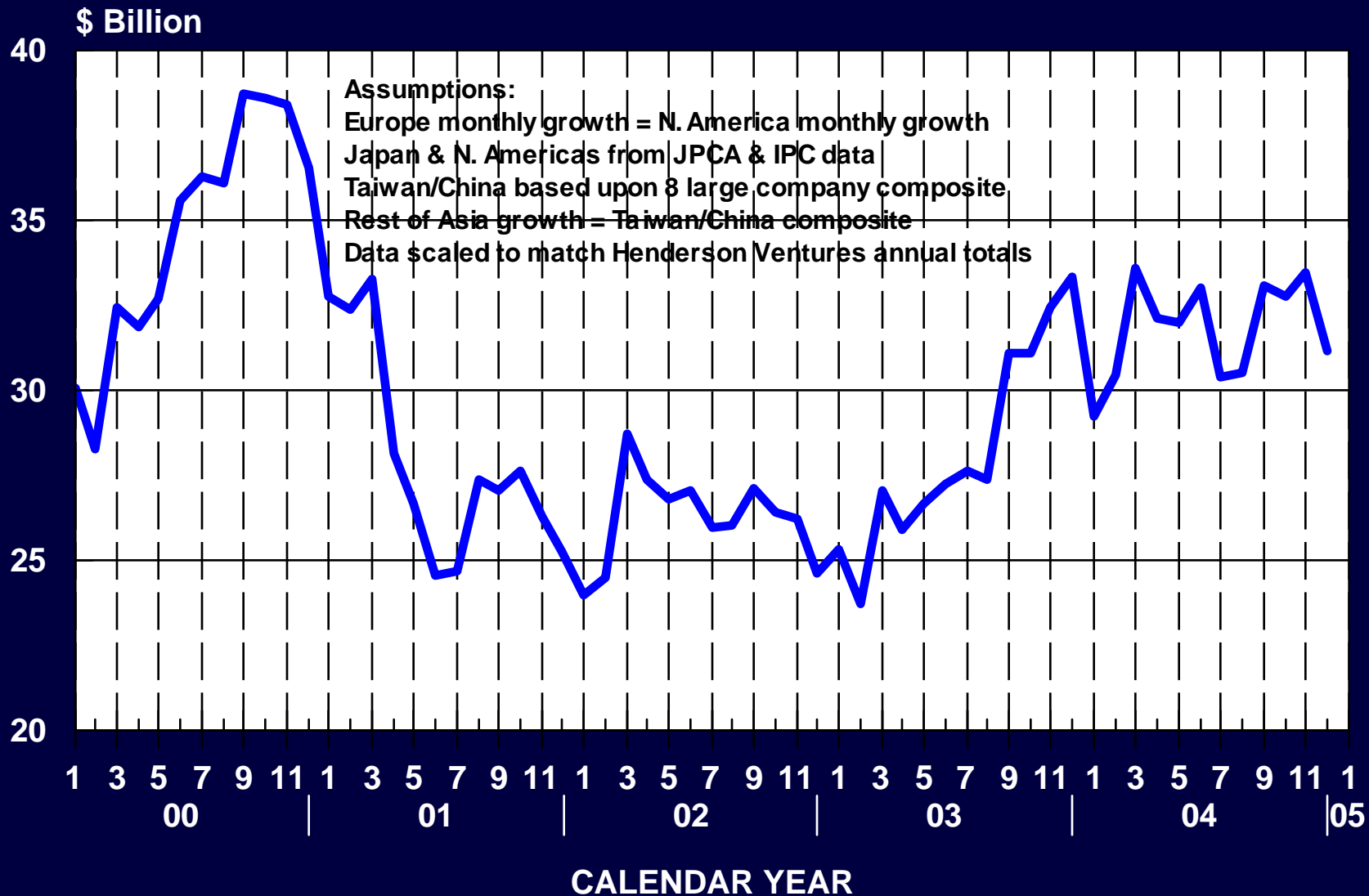
FY ends May

MERX

World PCB Model

World PCB Shipments

Converted @ Constant 2003 Exchange Rates



Source: Custer Consulting Group - synthesized from Henderson Ventures annual estimates and N. American, Japanese & Taiwanese/Chinese monthly data

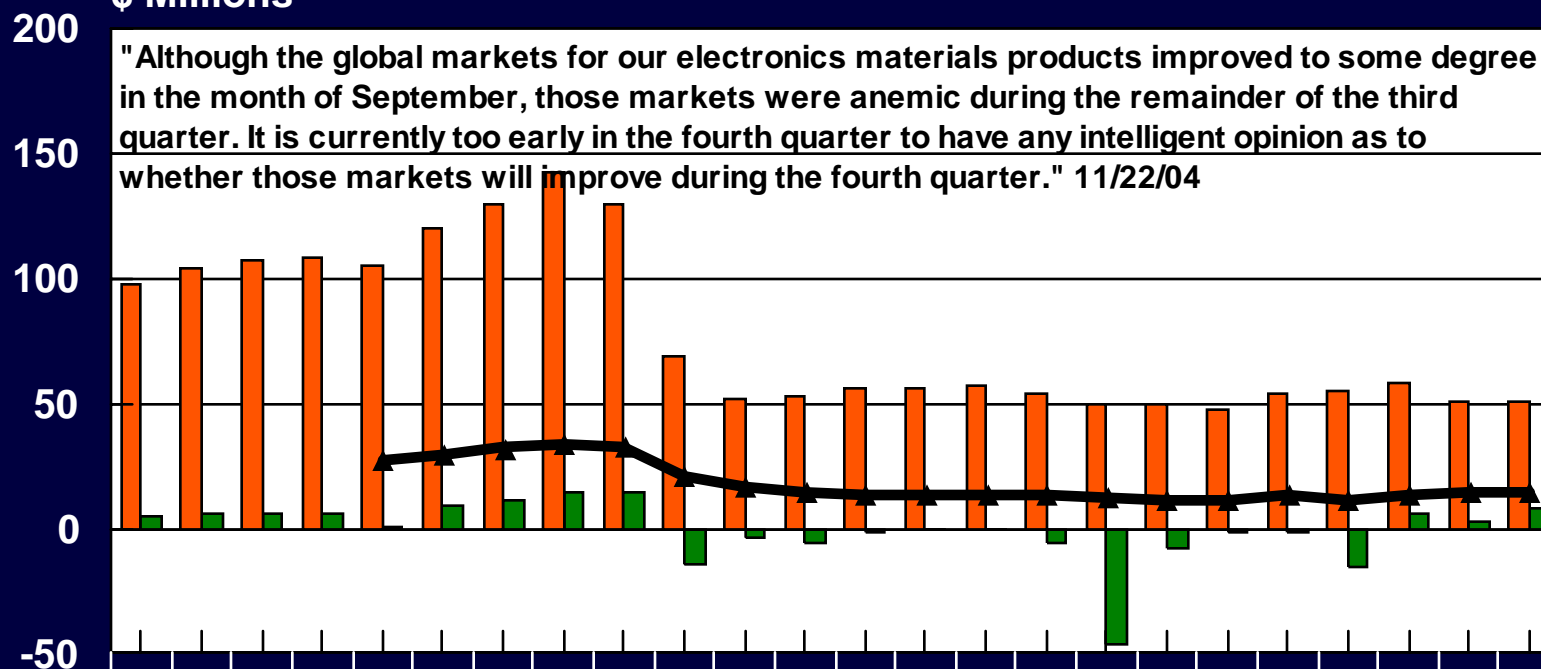
Materials

Park Electrochemical Corp

Revenue, Net Income & Inventory

\$ Millions

"Although the global markets for our electronics materials products improved to some degree in the month of September, those markets were anemic during the remainder of the third quarter. It is currently too early in the fourth quarter to have any intelligent opinion as to whether those markets will improve during the fourth quarter." 11/22/04



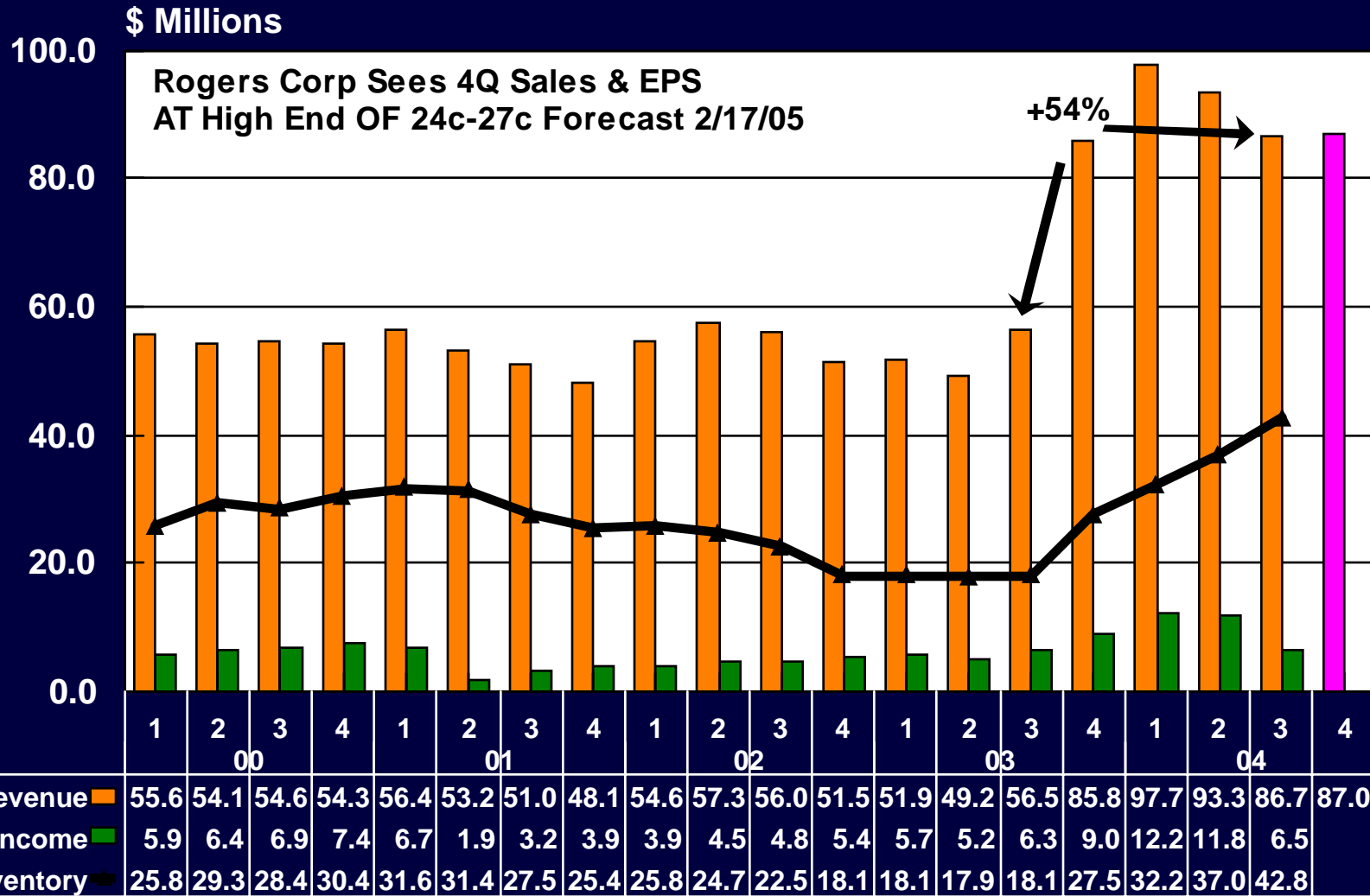
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	99				00				01				02				03				04			
Revenue	98	105	108	108	105	120	130	143	130	69	52	53	57	57	57	54	50	50	47	54	55	59	51	50
Income	5	6	6	6	1	9	12	15	14	-15	-4	-6	-1	-1	-1	-5	-46	-8	-1	-2	-15	6	3	8
Inventory					27	29	32	34	32	21	17	14	13	14	13	13	13	11	11	13	12	14	14	14

CY

PKE

Rogers Corp

Revenue, Net Income & Inventory

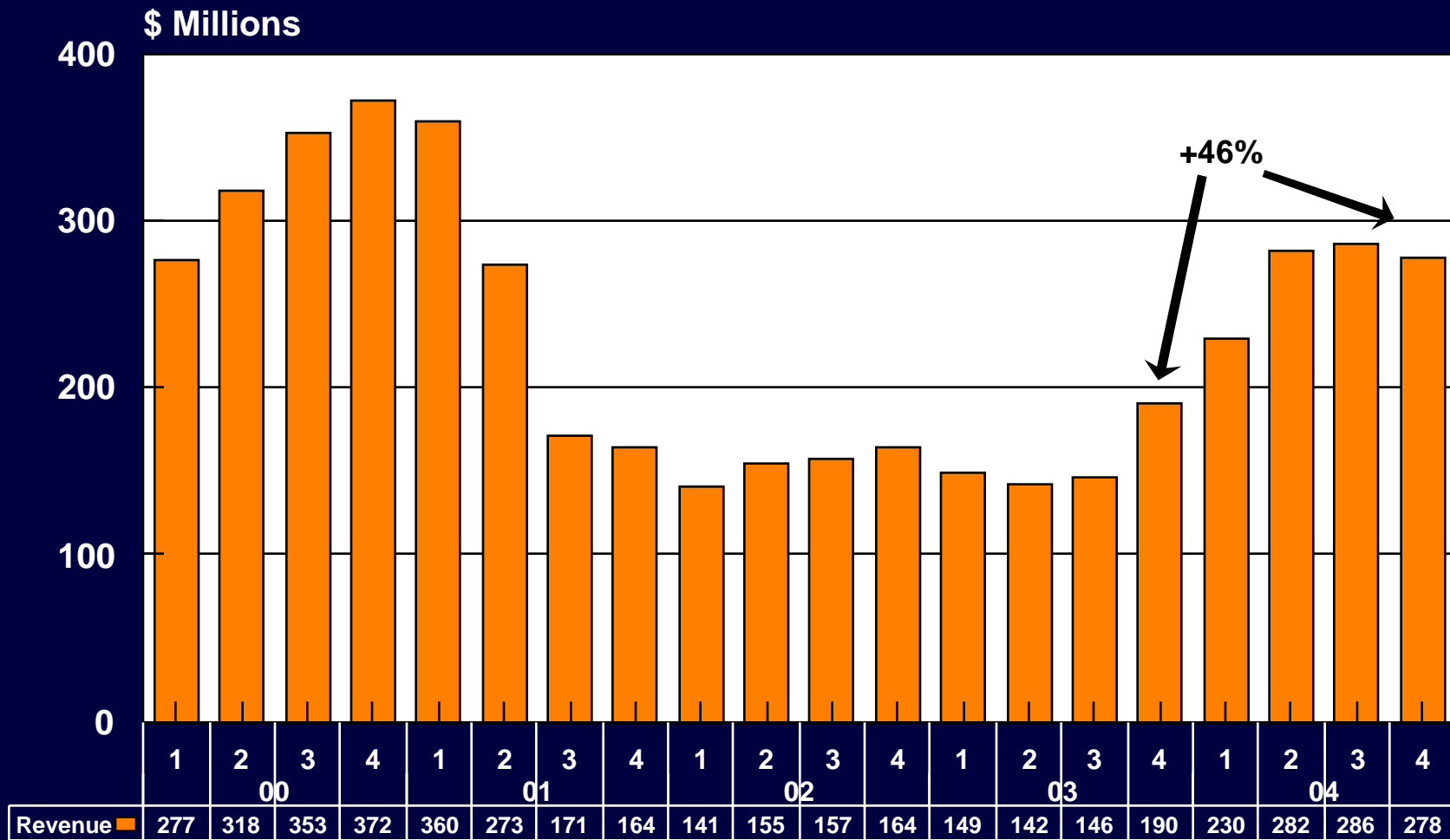


CY

ROG

Process Equipment Related Suppliers

Composite of 6 Companies



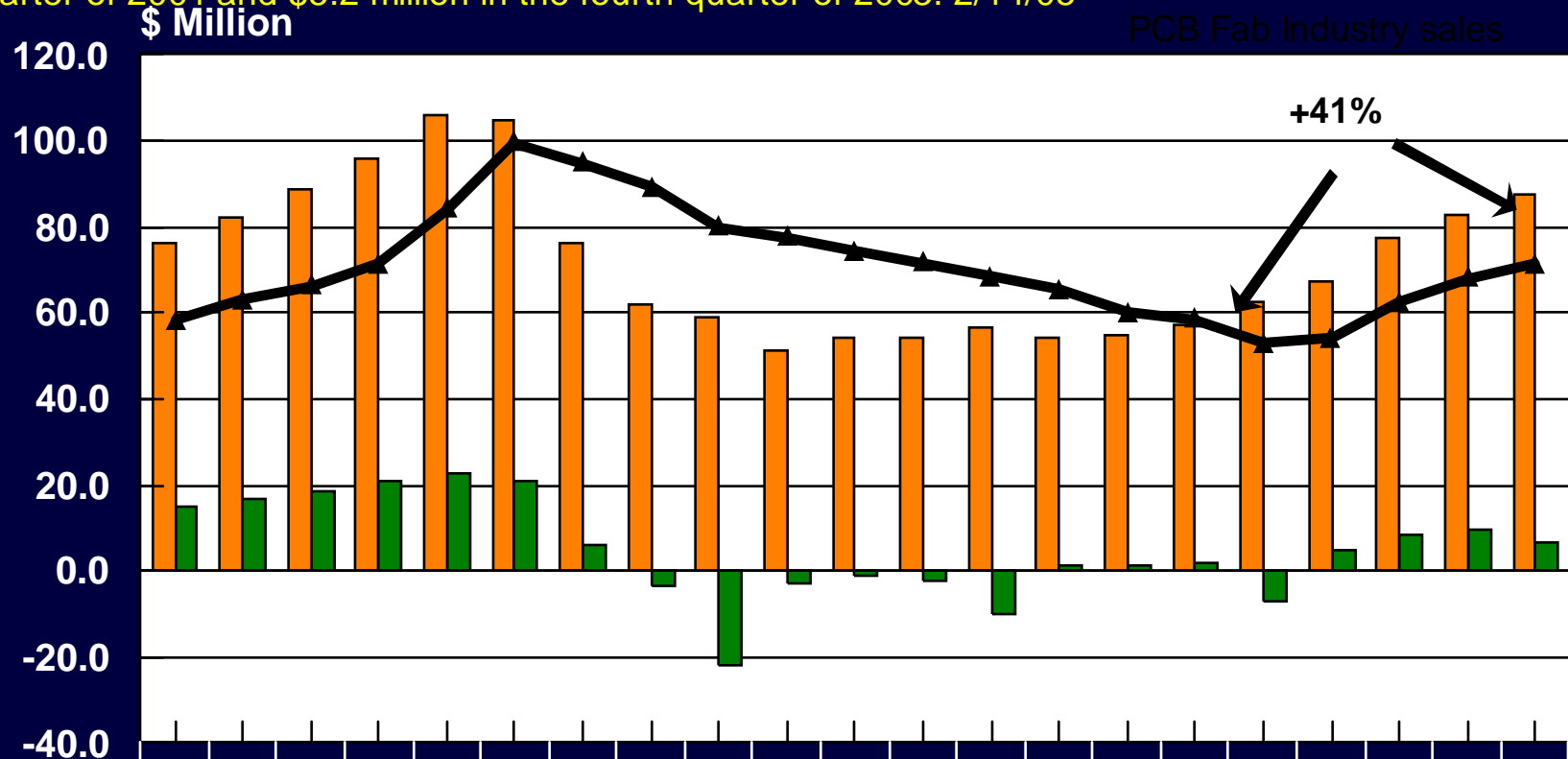
CY

C-Sun, Camtek, ESI, GSI Lumonics, Orbotech, Valor
 NT\$ converted at constant 2003 exchange

Orbotech

Revenue, Net Income & Inventory

Sales of equipment to the PCB industry relating to bare PCBs in the fourth quarter of 2004 were \$32.7 million, compared with \$33.0 million in the third quarter of 2004 and \$23.7 million in the fourth quarter of 2003. Sales of equipment to the PCB industry relating to assembled PCBs were \$8.3 million, compared with \$7.4 million in the third quarter of 2004 and \$5.2 million in the fourth quarter of 2003. 2/14/05



	4 99	1 00	2 00	3 00	4 00	1 01	2 01	3 01	4 01	1 02	2 02	3 02	4 02	1 03	2 03	3 03	4 03	1 04	2 04	3 04	4 04
Revenue	76.2	82.3	88.4	95.7	105.9	104.9	76.5	61.7	58.9	51.1	54.2	54.2	56.9	54.2	54.6	57.3	62.3	67.2	77.5	82.7	87.8
Income	15.2	16.6	18.7	21.0	22.7	21.0	6.1	-3.6	-21.7	-2.7	-1.2	-2.0	-9.8	1.0	1.2	2.0	-7.3	5.1	8.6	9.4	6.5
Inventory	58.2	62.9	66.4	71.3	84.1	99.6	94.8	89.3	80.1	77.7	74.2	71.7	68.4	65.5	60.2	58.5	53.0	54.1	62.4	68.0	71.5

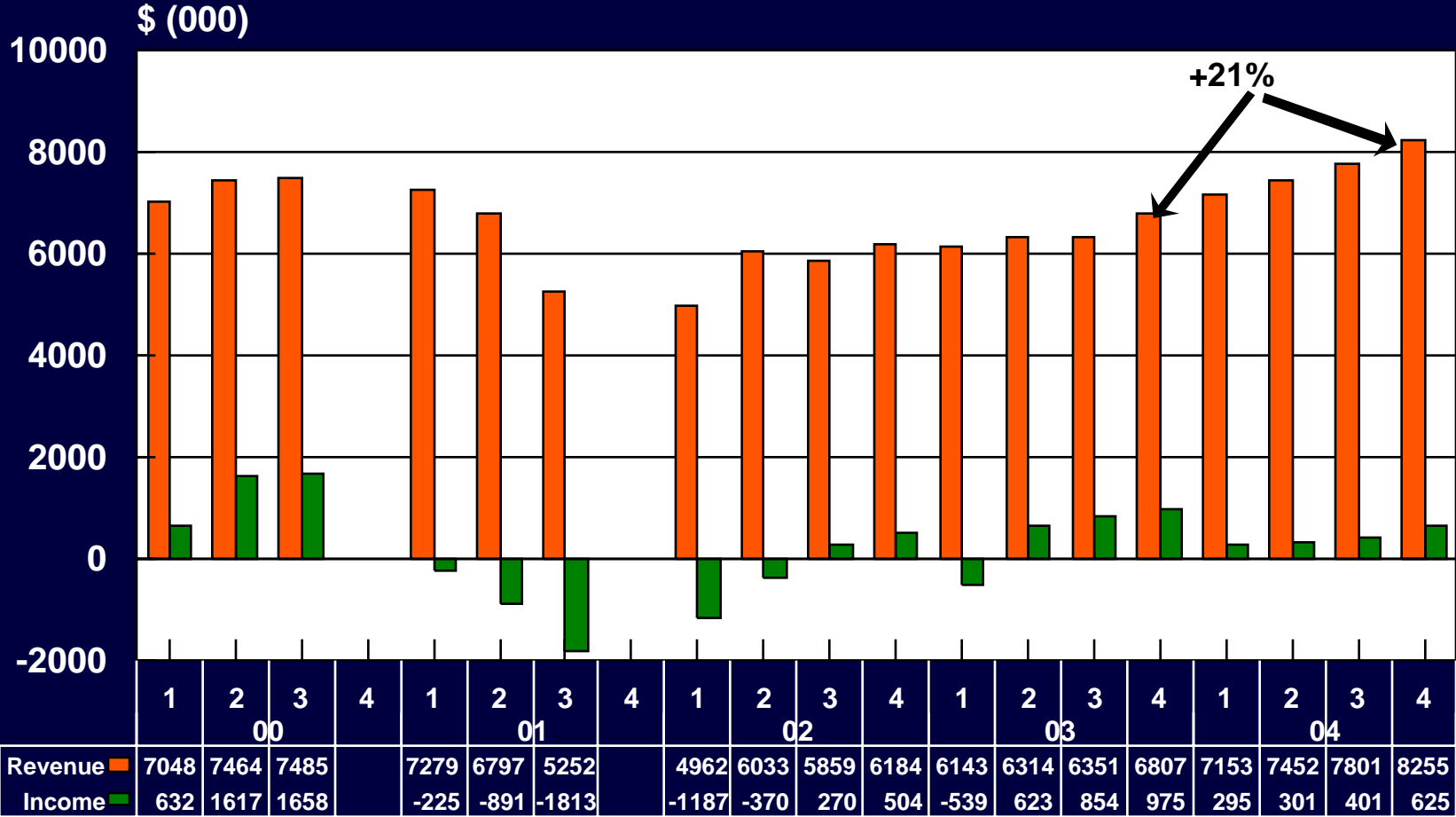
CY

ORBK

Valor Computerized Systems

Revenue & Net Income

"With a growth factor of about 20% in revenues as compared to last year and with the excellent staff on hand I believe in our ability to continue our growth trend. Valor is strong, and we are progressing into 2005 at full throttle". 2/14/05



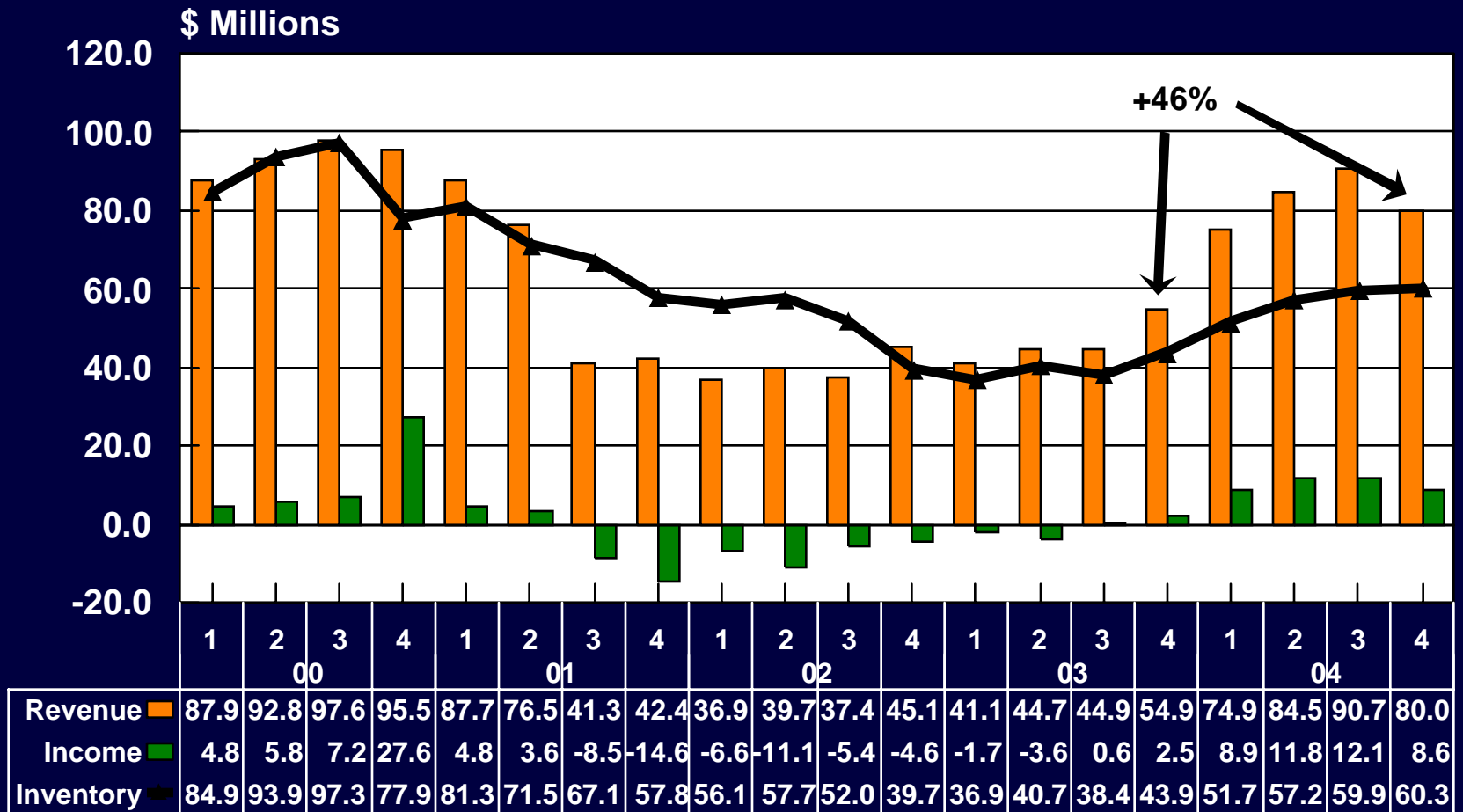
C.VAC

CY

GSI Lumonics

Revenue, Net Income & Inventory

"We are adopting a cautious outlook for 2005 with focus on cost controls and operational efficiency improvements as we anticipate lower sales in 2005 due to slowdown in the semiconductor, PCB and data storage sectors from the strong expansions this past year." 2/23/05



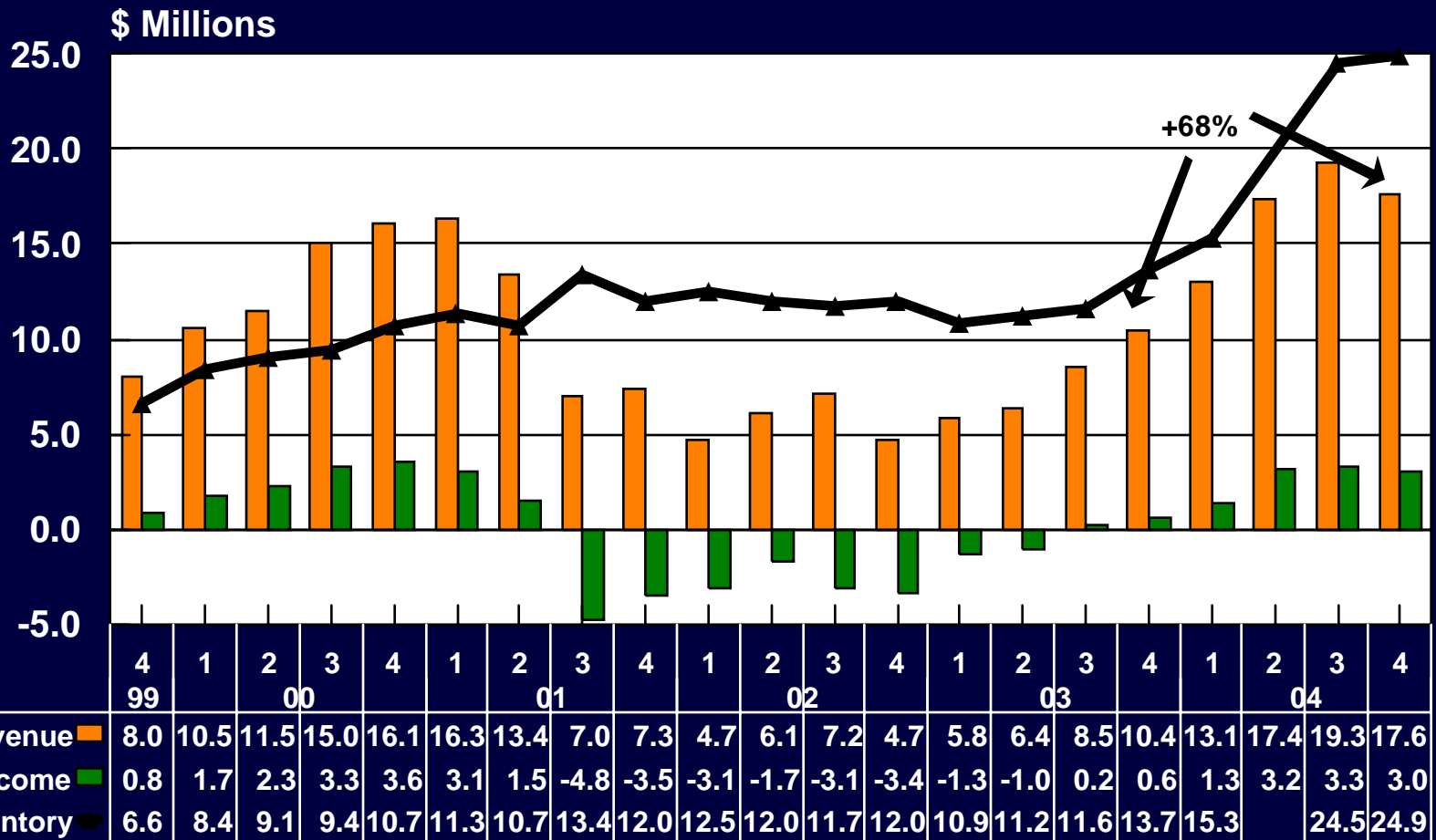
CY

GSLI

Camtek Ltd

Revenue, Net Income & Inventory

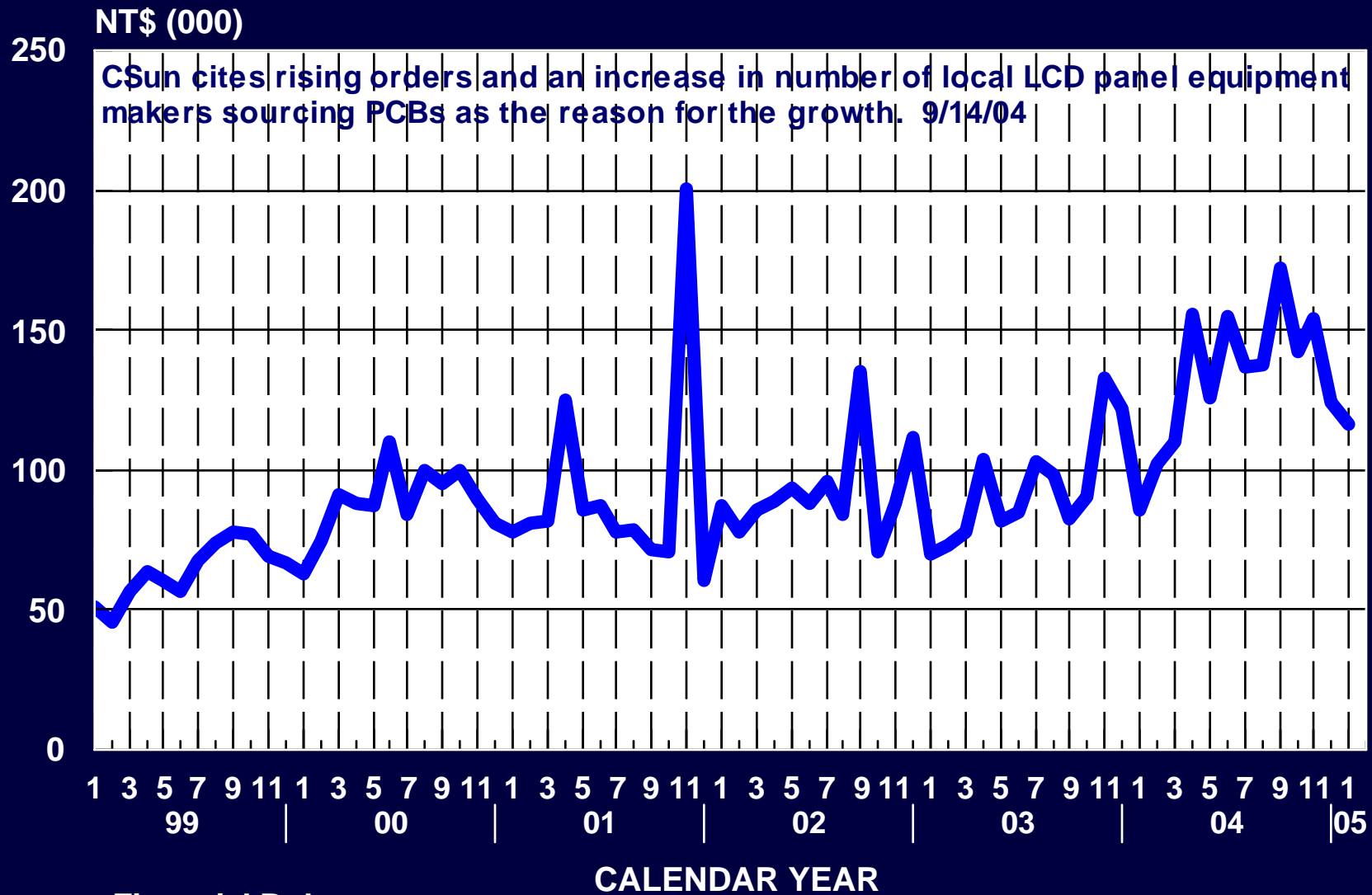
"Our outlook for 2005 as a whole remains positive and we have slightly adjusted our working assumptions to expect revenue growth of approximately 10% over 2004. We base this outlook on both analyst forecasts and our expectations of industry growth in the second half of the year, and on our belief in the competitive advantages of our products." 2/23/05



CY

CAMT

C Sun Manufacturing, Taiwan



Company Financial Releases

Summary

- **Post-2000 "implosion" is behind us.**
- **Electronic component manufacturing "center of gravity" has shifted to SE Asia (Especially China).**
- **2004 began strong domestically driven by economic recovery & inventory replenishing; leading to capacity fears, over-ordering & inventory building. Demand softened in last 8 months of 2004.**
- **Niche and military markets drove N America.**
- **SE Asia captured volume production.**

Summary

2005 begins with modest expectations.

**2005 will NOT be a replay of 2001
as inventories are now in MUCH BETTER control**

Interest rates will slow domestic growth

Managing in a highly cyclical business will remain a challenge

Focusing on higher growth customers & end markets is key

**The "sky is not falling" although SE Asia will continue to expand
as the largest market.**

Timely, Useful Data

PCB

- N. America
- Japan
- Taiwan/China

Semiconductors

- SIA regional shipments
- Chip foundries
- "Back end" SEMI companies

Composite data

- Taiwan PCB, laminate & motherboards
- Global OEM, EMS, ODM; PCB & SEMI equipment

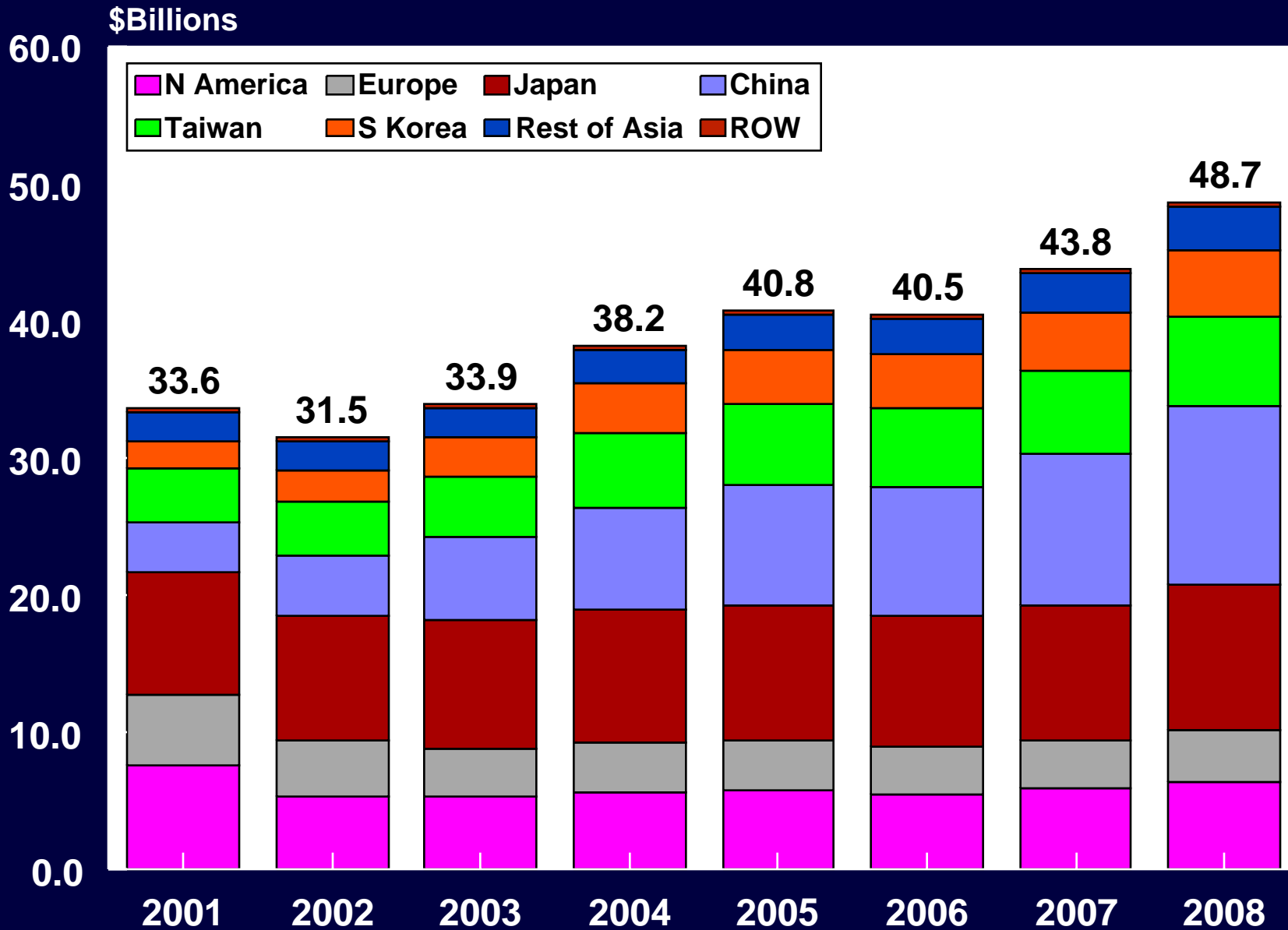
World PCB monthly shipment model

Electronic Equipment Production Growth

Current \$ Growth Rates Converted @ Constant Exchange Rates

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>
World	6.8	10.5	6.8	6.0	8.2
USA	6.0	10.8	5.6	4.4	5.4
W Europe	-1.5	3.2	2.5	3.2	5.5
Japan	6.9	3.7	3.0	3.4	5.7
Four Tigers	5.1	14.7	7.8	5.8	7.3
China	32.6	25.8	17.4	15.6	17.6

World Rigid & Flex PCB Production



Henderson Ventures PCI Report 12/04 (converted @ constant 2003 exchange)

Global "Electronic Foodchain" Outlook 2005 vs 2004

