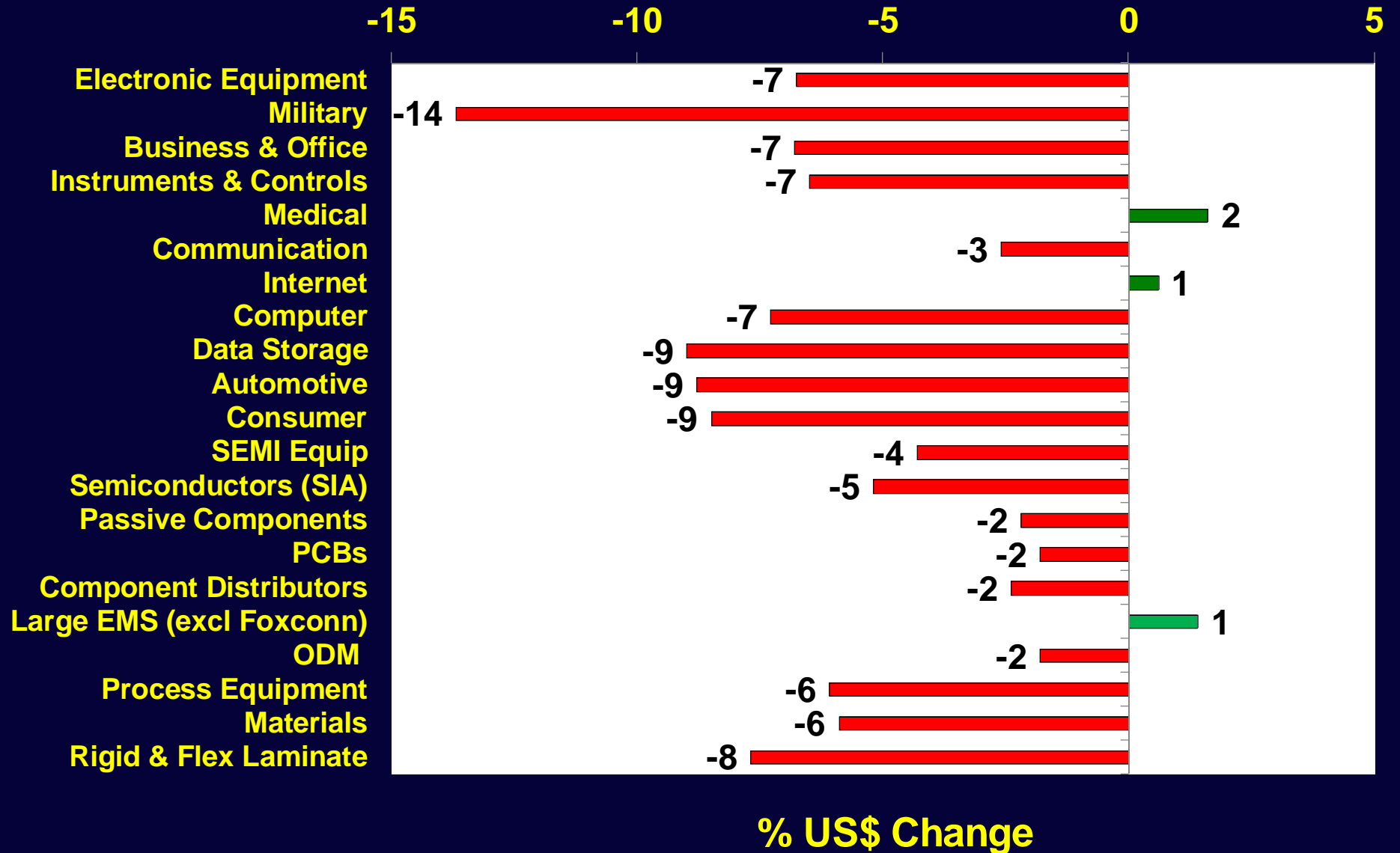


Global Electronic Supply Chain Growth

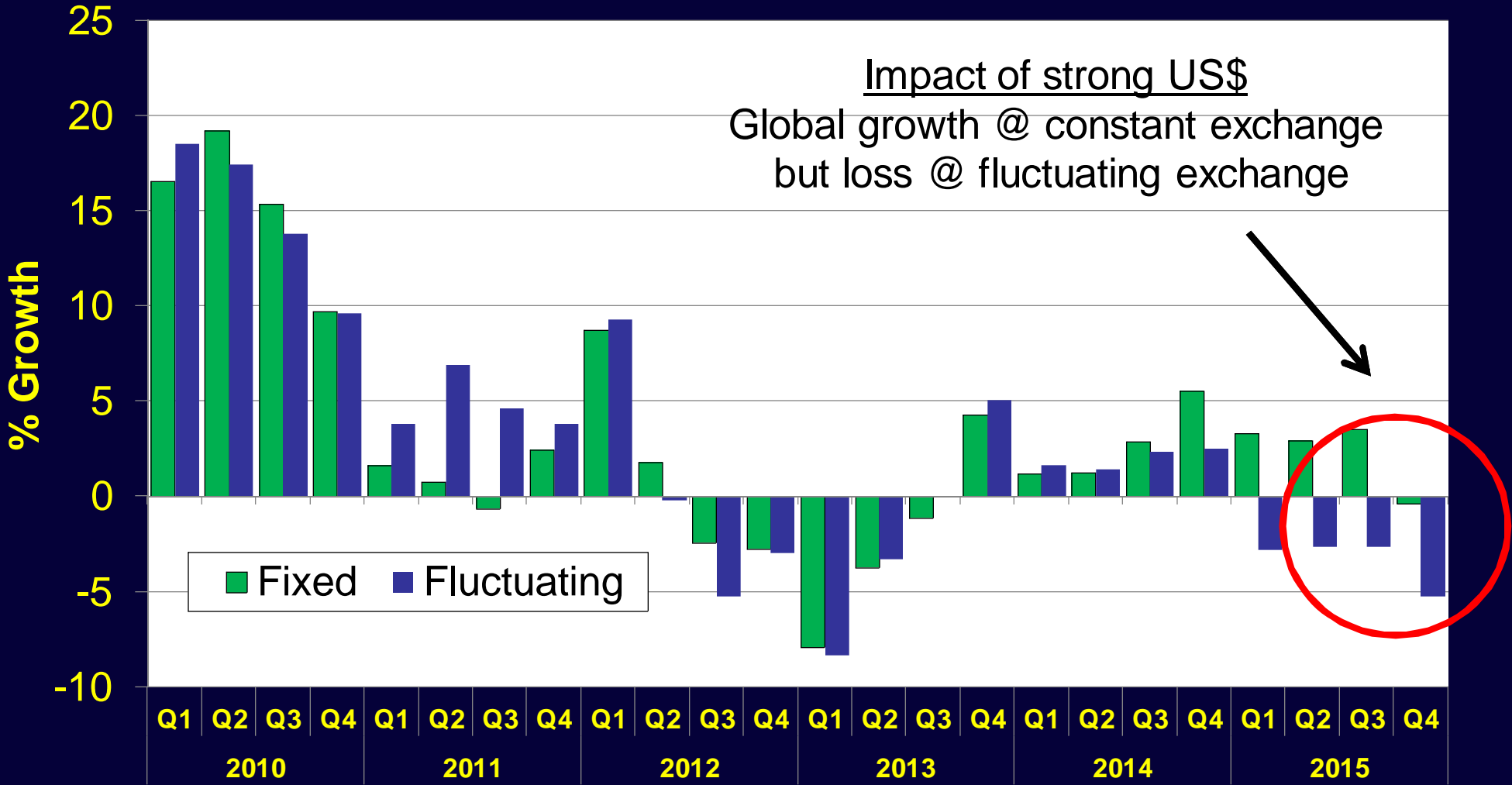
4Q'15 vs. 4Q'14 (very preliminary)



US\$ equivalent at fluctuating exchange; based upon industry composites including acquisitions

Exchange Rate Impact on US\$ Denominated Consolidated World Electronic Equipment Sales

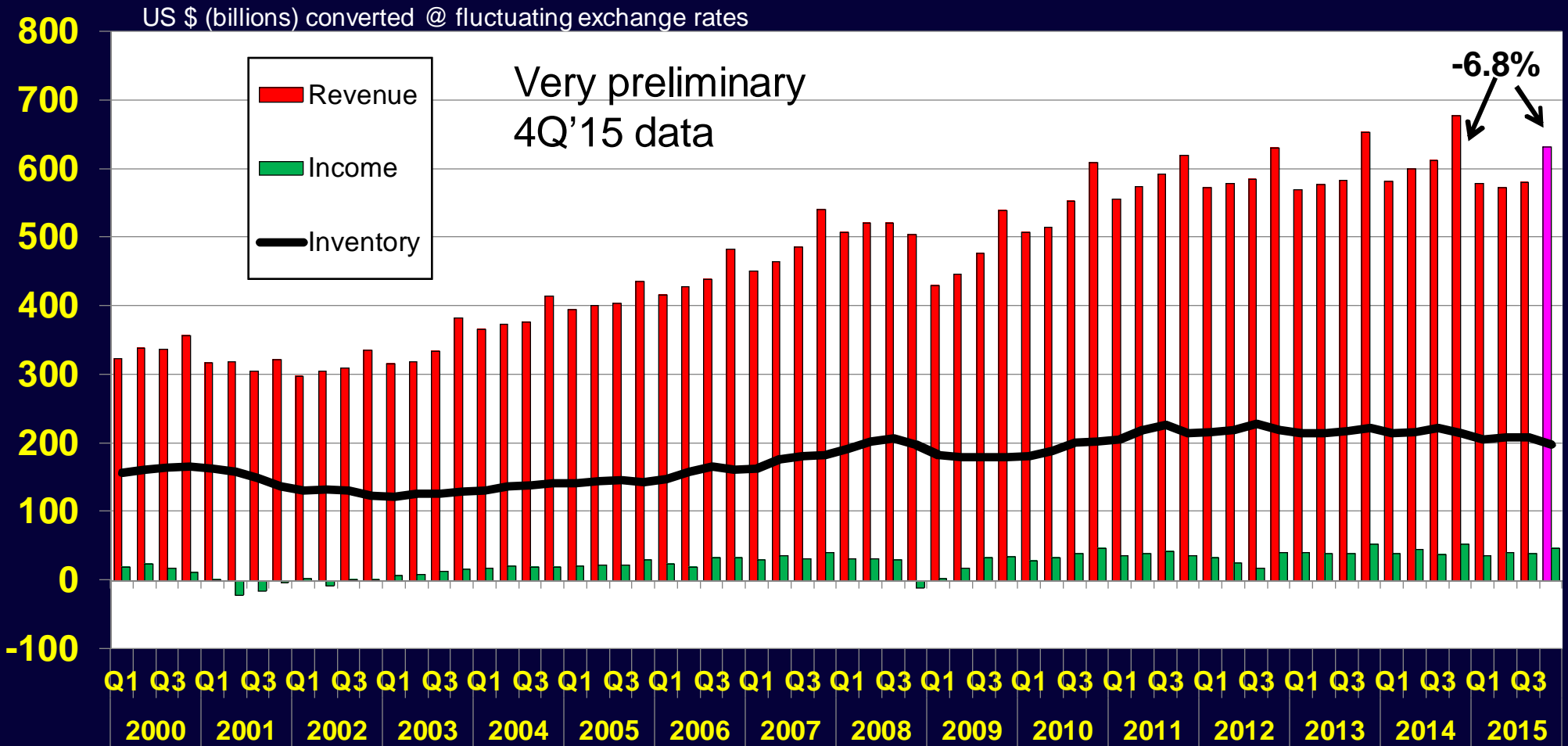
Quarterly Revenue Growth Converted to US\$ @ Fixed 2014 vs Fluctuating Exchange



Electronic Equipment Suppliers

Composite of 175 Public Companies

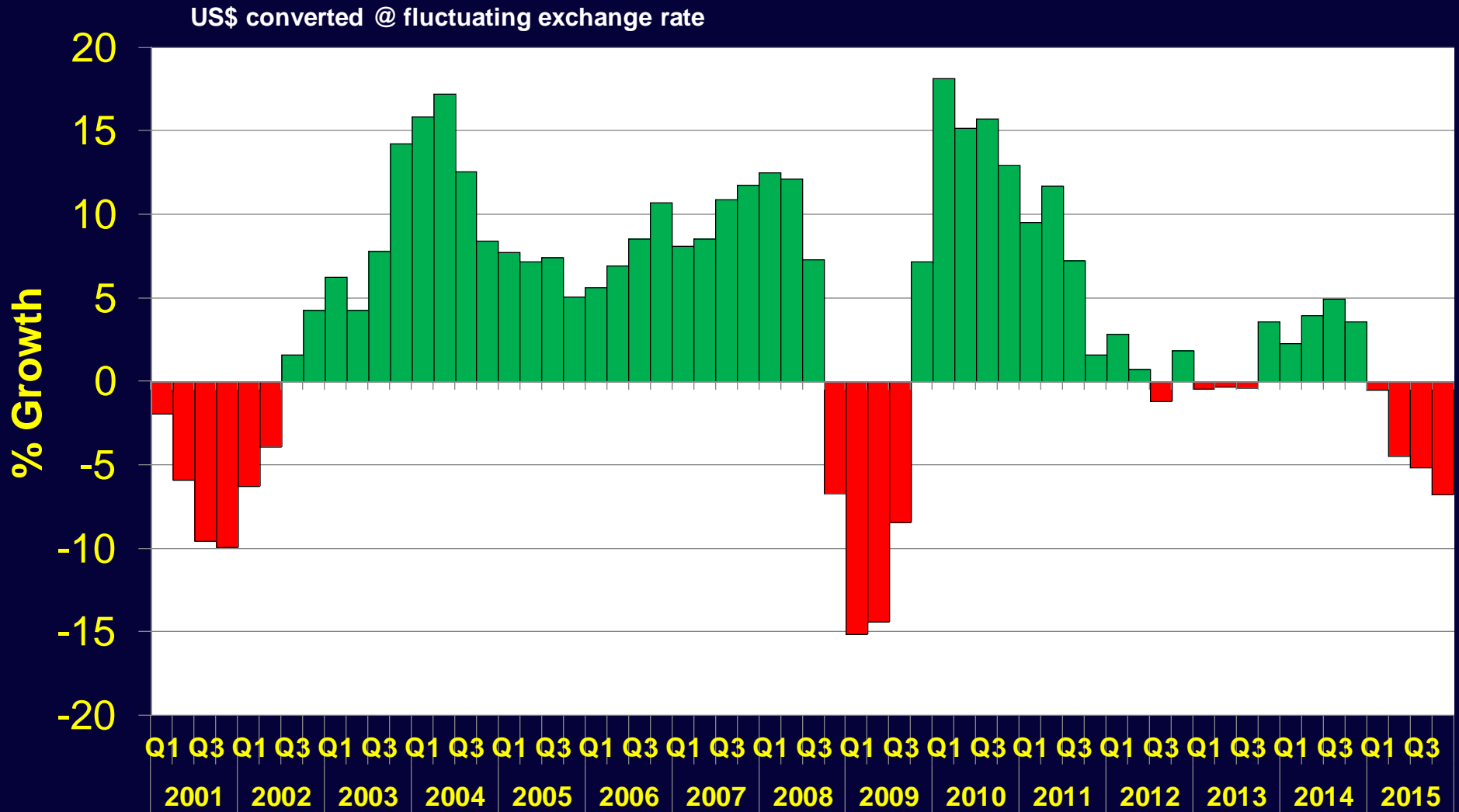
Revenue, Net Income & Inventory



Computer 13, Internet 12, Storage 10, Communication 20, SEMI 37, Medical 21, Instruments 12, Military 21, Business & Office 6, Consumer 13, Automotive 11

Chart 4

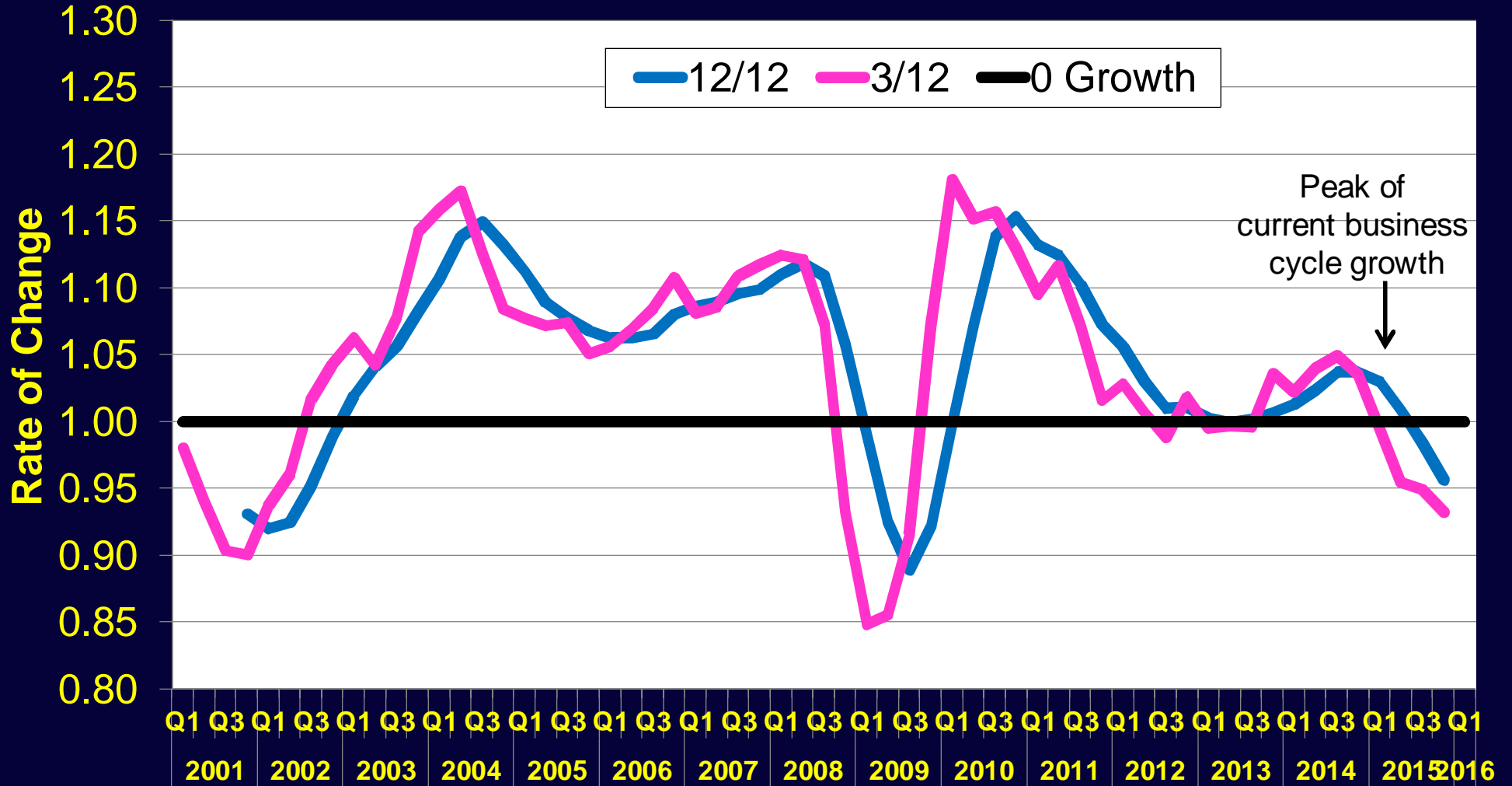
Electronic Equipment Suppliers Composite of 175 Public Companies Quarterly Revenue Growth



Computer 13, Internet 9, Storage 10, Communication 20, SEMI 20, Medical 23, Instruments 12, Military 6, Business & Office 3 + Media tablets from all vendors, Consumer 13, Automotive 11

Chart 5

Global Electronic Equipment Shipment Growth 12/12 & 3/12 Rate of Change



175 OEM company sales composite

World Electronic Equipment Production By Type (very preliminary 4Q'15 results)

Annual Rate \$B (converted @ fluctuating exchange rates)

-6.8%

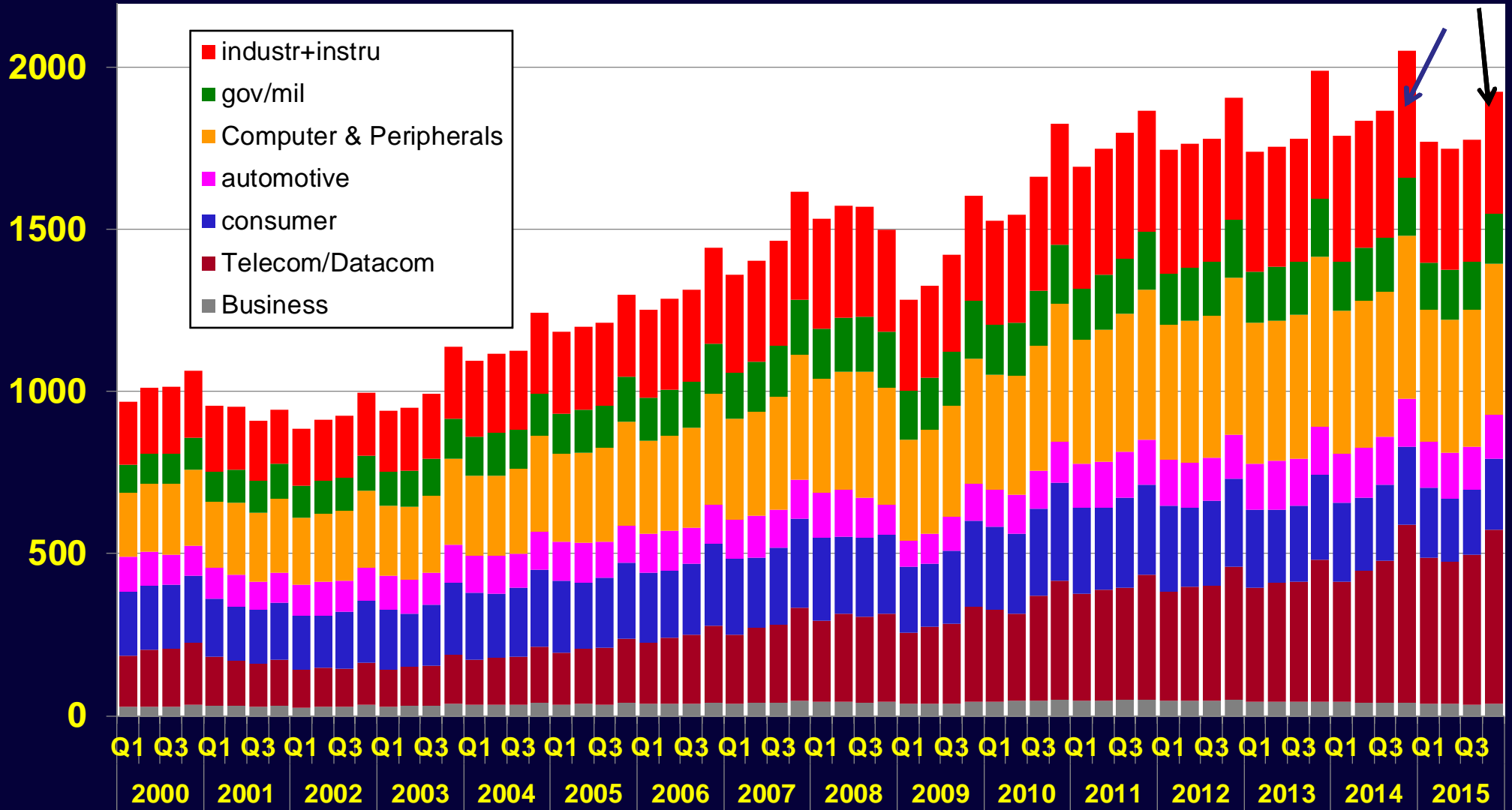
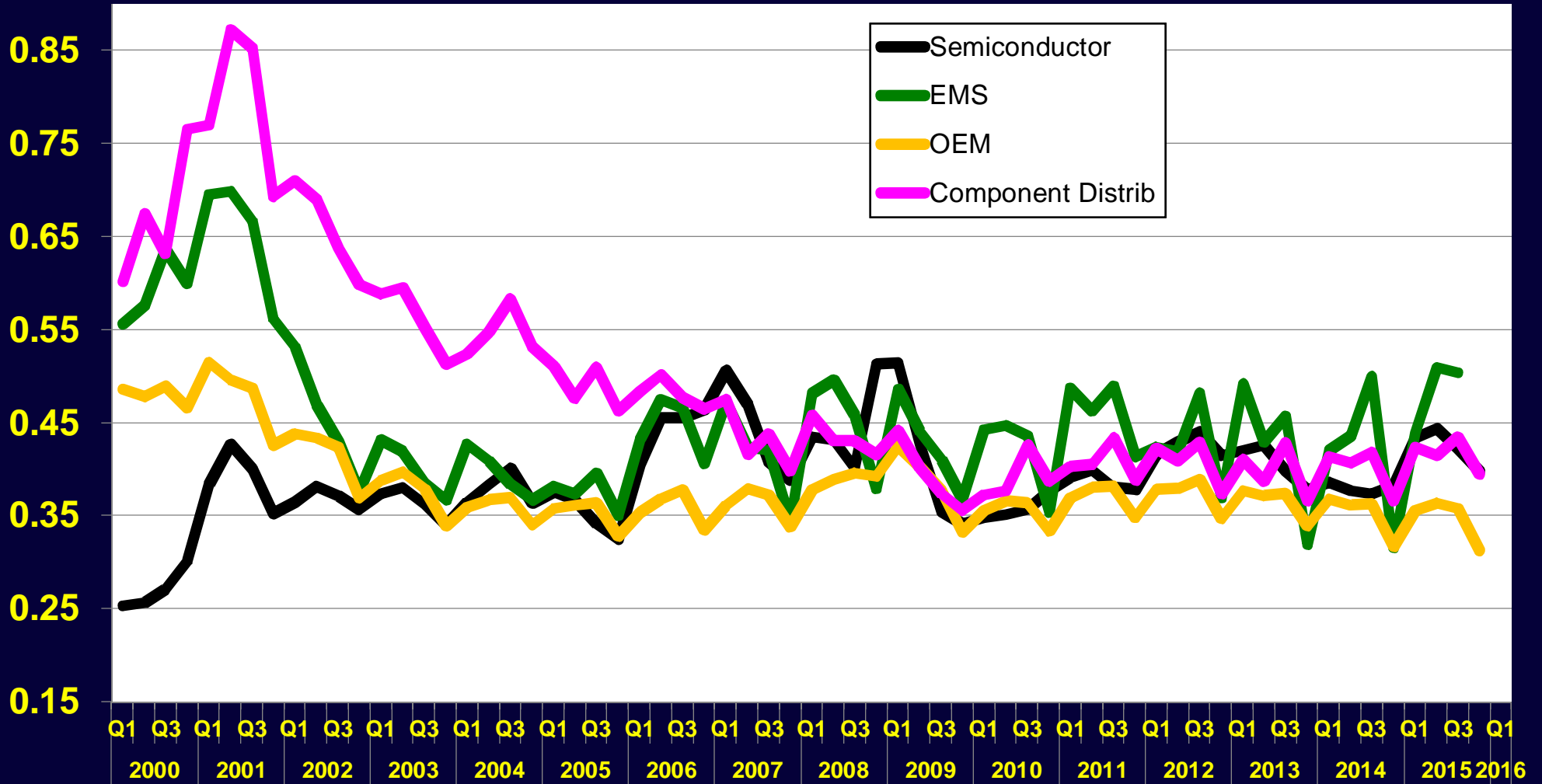


Chart 7

Inventory/Sales Ratios

Large Component Distributors, Semiconductor, EMS & OEM Companies

Ratio: Inventories/Sales



U.S. Electronic Equipment Orders

Monthly Data

\$ Billions (monthly, seasonally adjusted)

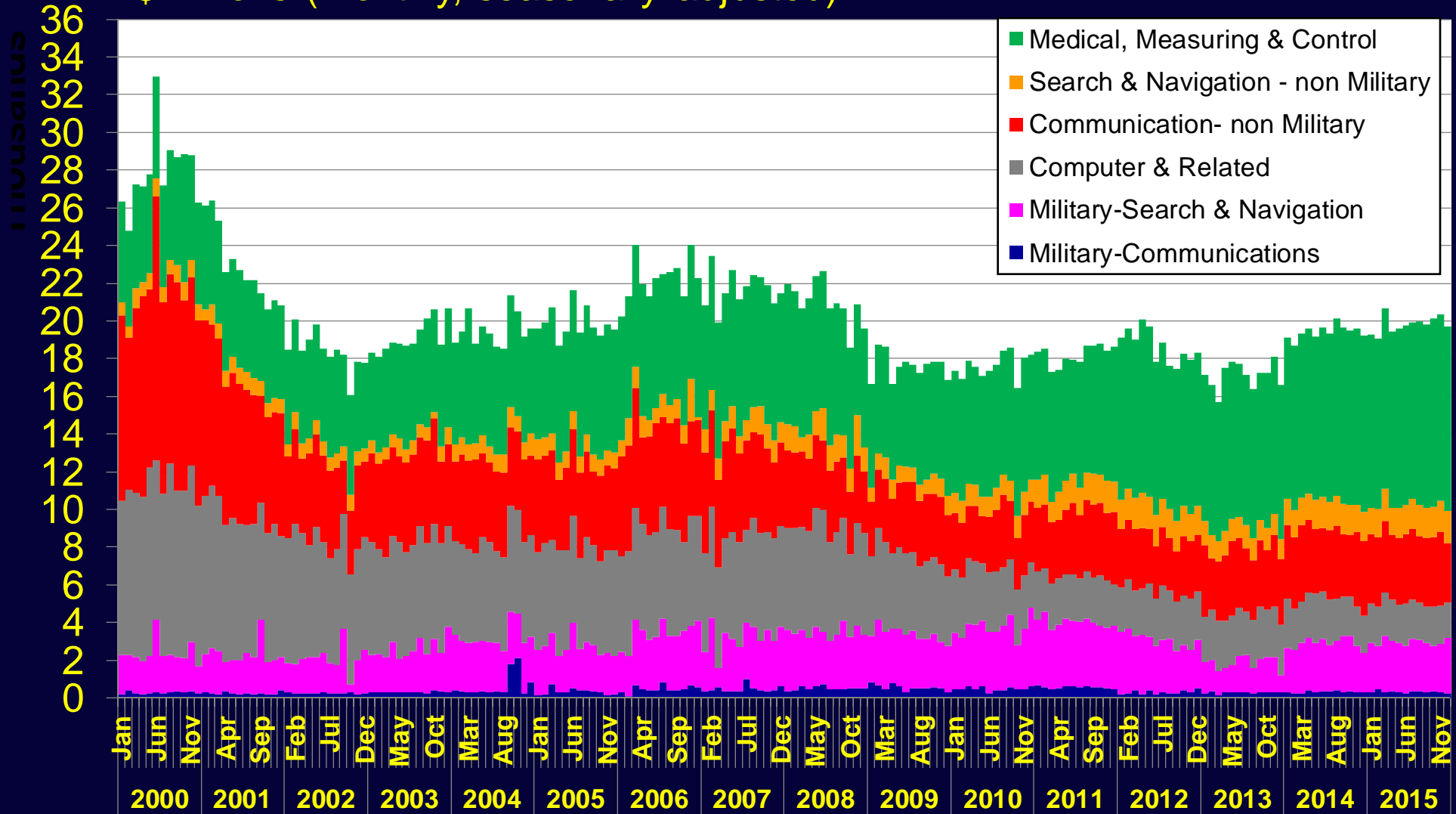


Chart 9

U.S. Vehicle Shipments

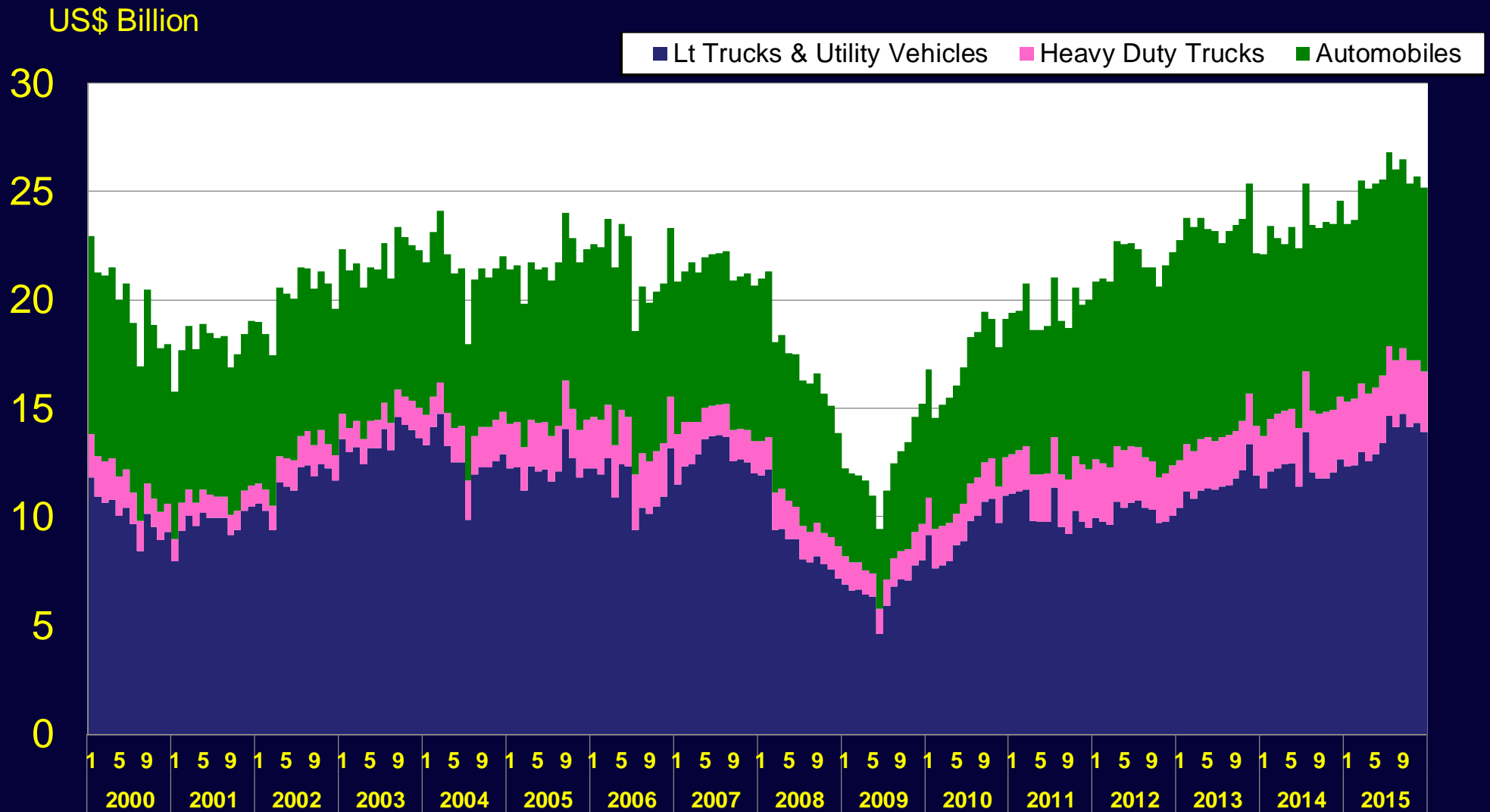
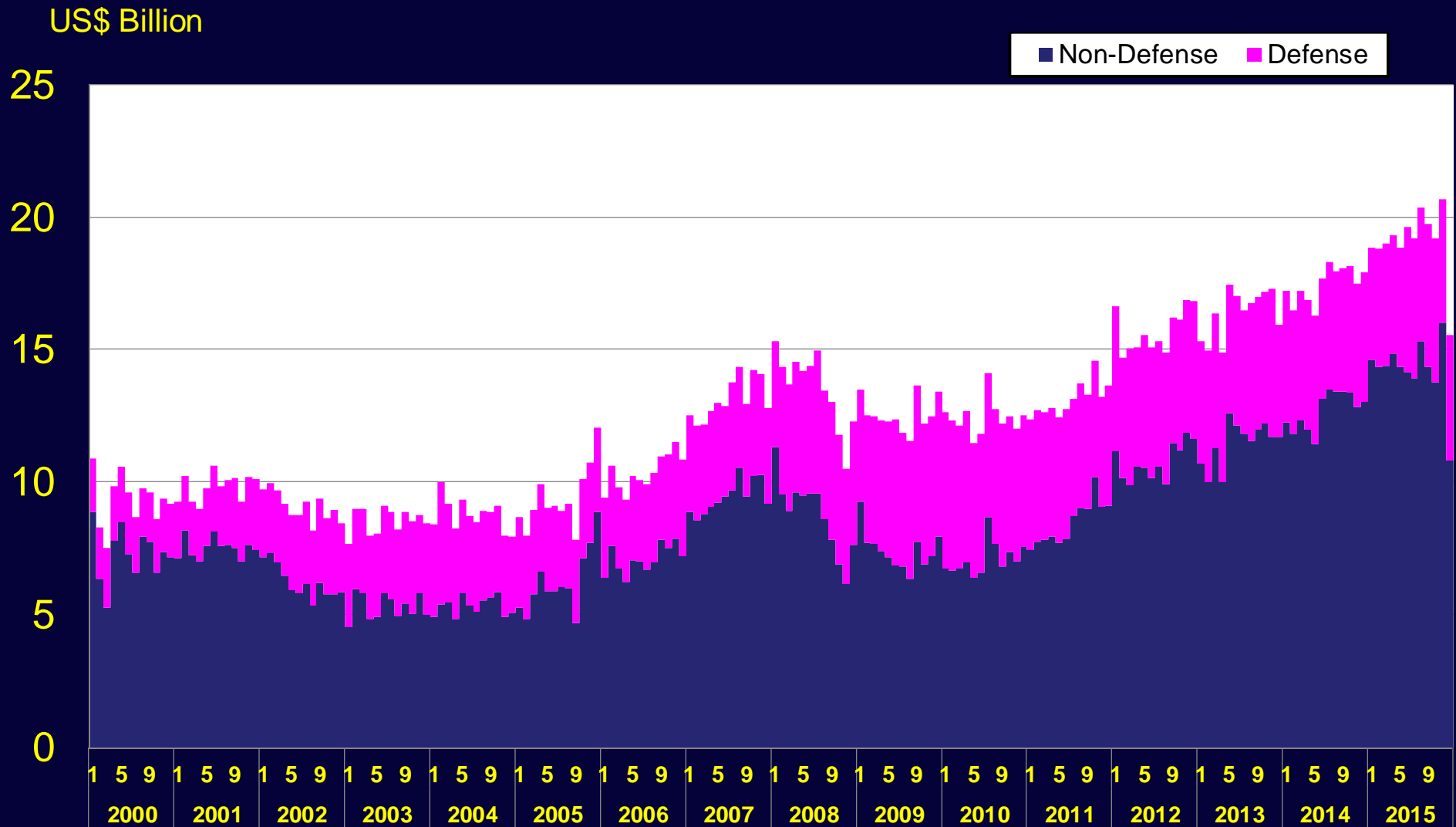
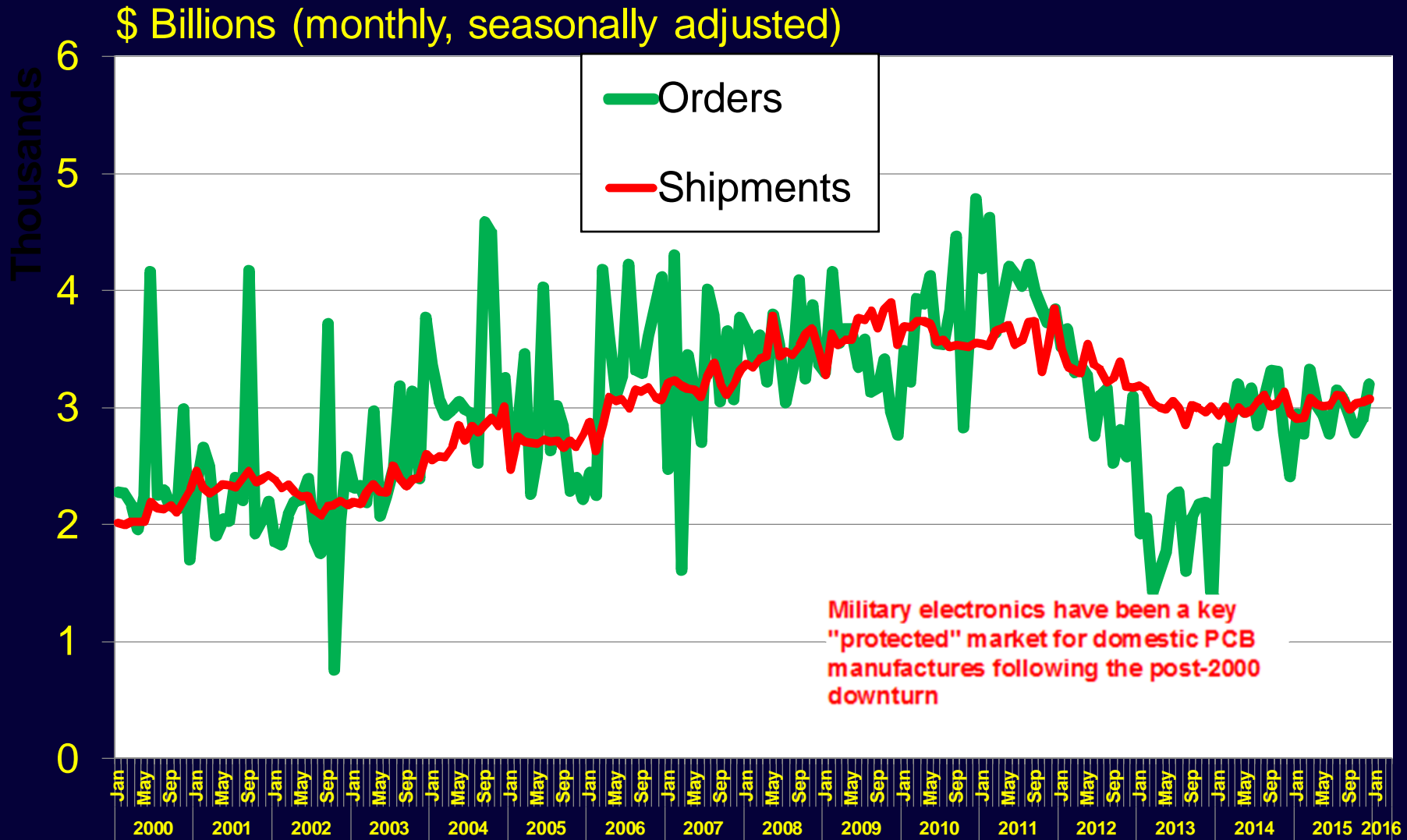


Chart 10

U.S. Aircraft & Parts Shipments



U.S. Military Electronics Orders & Shipments Defense Communication & Search & Navigation Equipment



U.S. Electromedical, Measurement & Control Equipment Orders & Shipments

\$ Billions (monthly, seasonally adjusted)

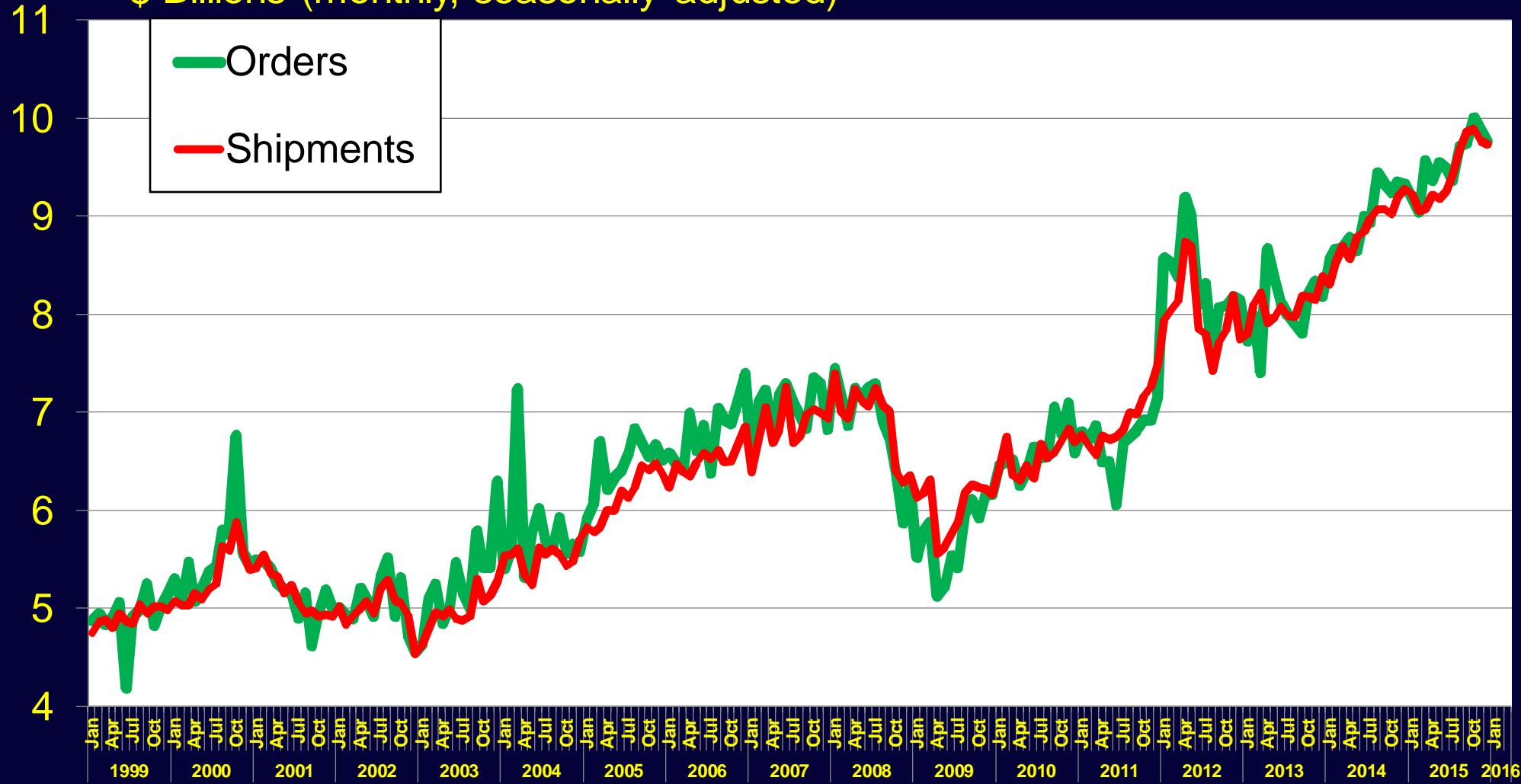


Chart 13

U.S. Production: "Other" Electronic Components (excludes semiconductors) Orders & Shipments

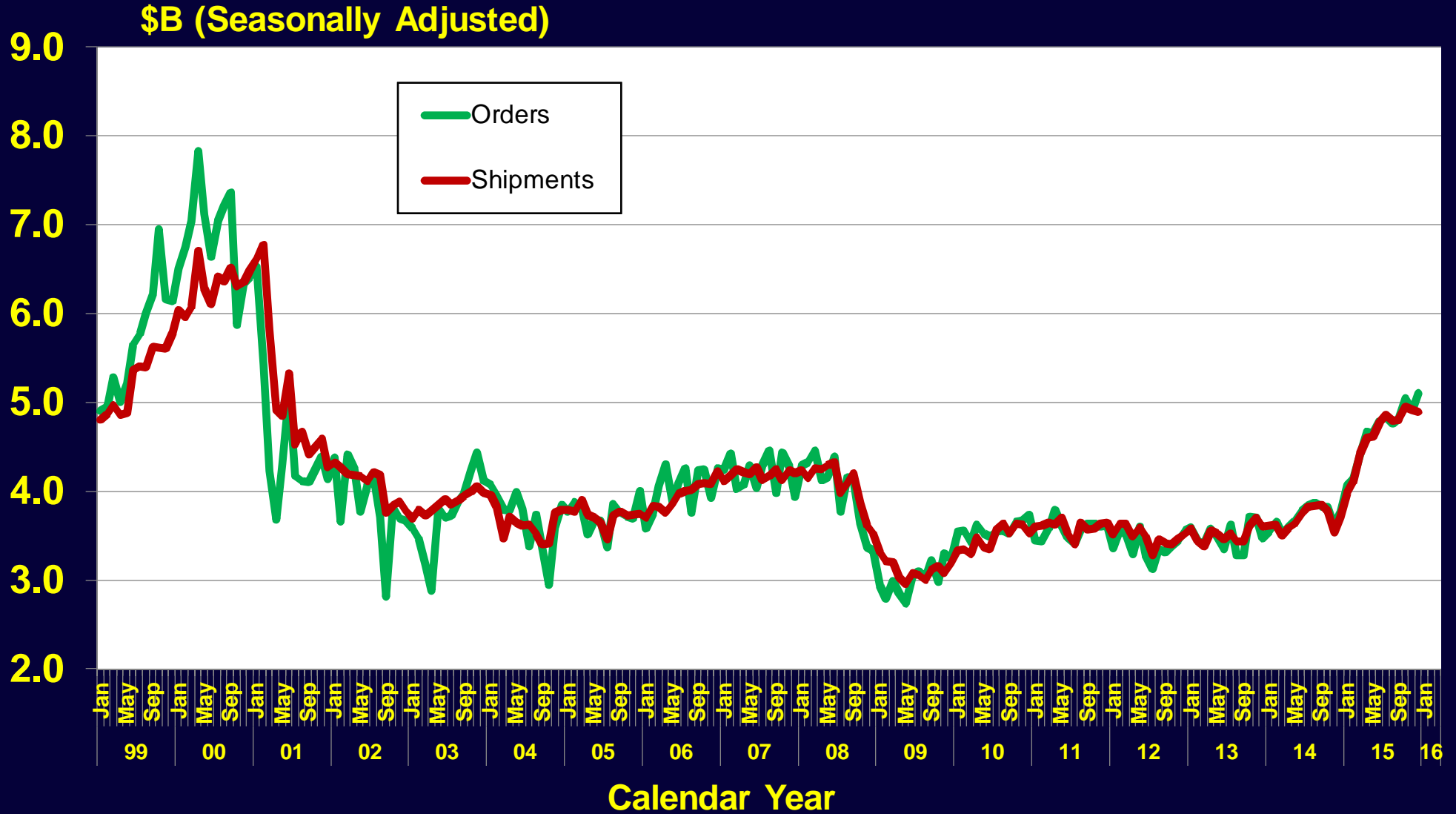
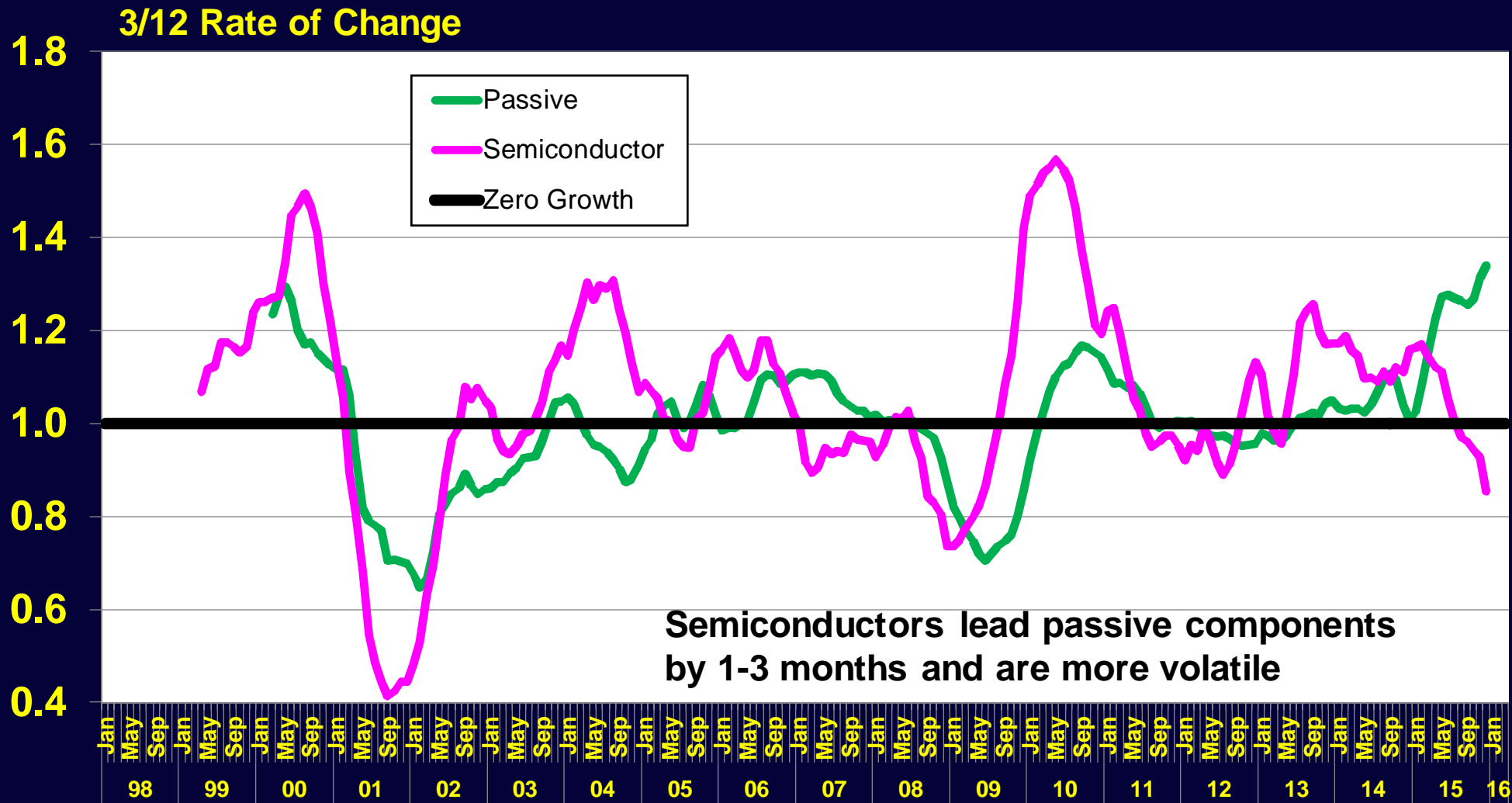


Chart 14 U.S. Passive Components Shipments vs. Semiconductor Shipments to N America



Present Growth Rates (%) U.S. Economy & Electronics Industry

	Latest Month	Annual Growth	3-Month Growth
Electronic Component \$			
Rigid & Flex PCB Orders (N Amer)	12/15	102.5	94.7
Rigid & Flex PCB Shipments (N Amer)	12/15	100.5	100.8
Electronic Component Orders	11/15	126.4	134.7
Electronic Component Shipments	11/15	125.9	133.9
Semiconductor Shipments to N America	12/15	99.2	85.4
U.S. Electronic Equipment Orders \$			
Computer & Related	12/15	91.0	96.7
Communication	12/15	97.9	96.3
Medical, Measurement & Control	12/15	106.2	106.1
Search & Navigation	12/15	103.0	106.4
Defense Capital Goods	12/15	99.0	125.3
Military Electronics	12/15	101.8	104.6
Total Electronic Equipment	12/15	102.0	103.2
U.S. Industrial Production	12/15	101.3	99.1

NOTE: 3 month growth rates compare most recent 3 months to same 3 months one year earlier

U.S Electronic Supply Chain Shipment Growth 4Q'15 vs. 4Q'14

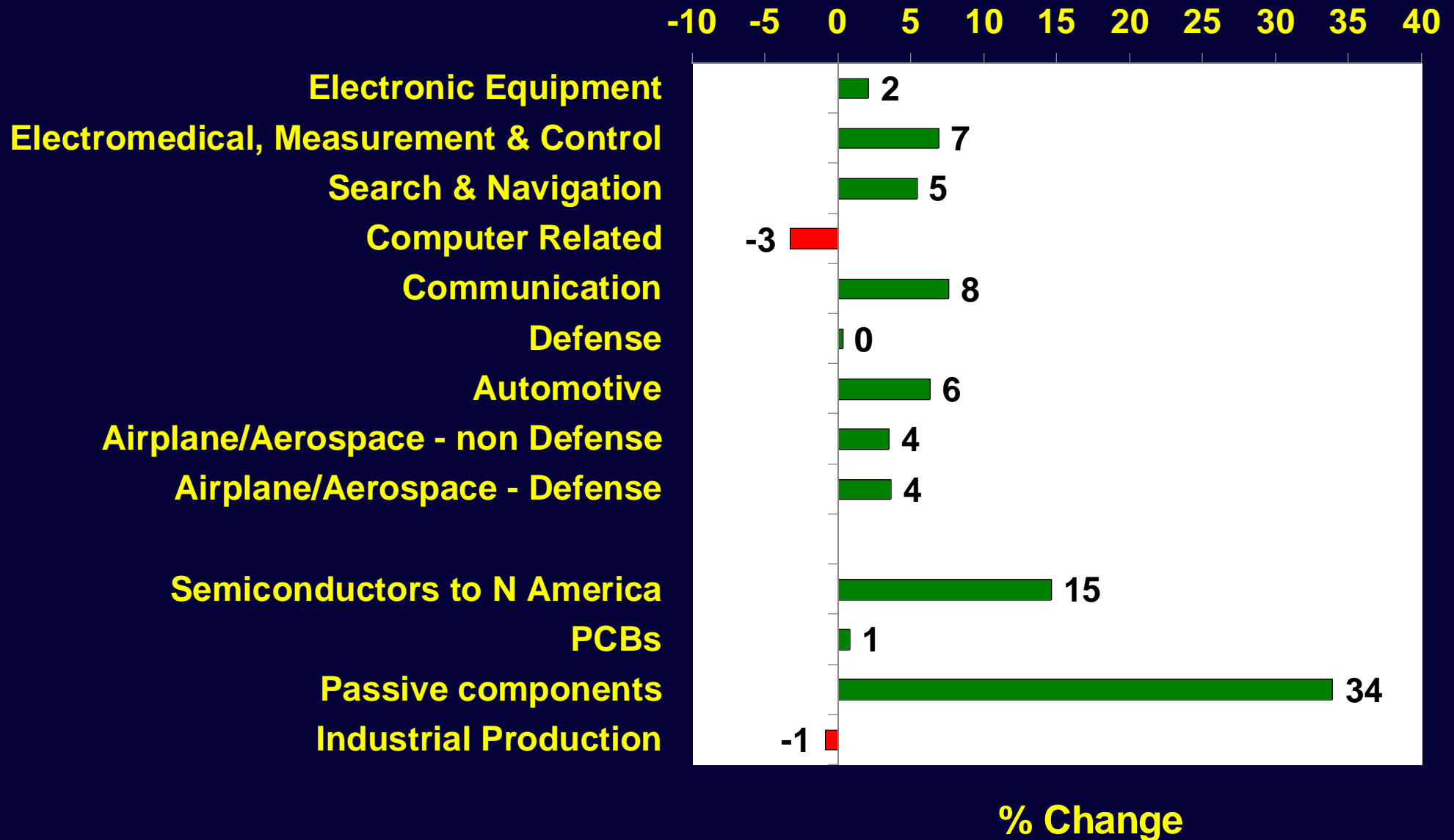


Chart 17

Monthly Semiconductor Shipments \$ Billions (3-month avg in US\$)

	<u>12/14</u>	<u>12/15</u>	<u>% CH</u>
Americas	6.73	5.75	- 14.5%
Europe	3.01	2.77	- 7.9%
Japan	2.80	2.57	- 8.1%
China	8.03	8.45	+ 5.2%
Asia Pacific / All Other	8.57	8.08	- 5.7%
Total	29.13	27.62	- 5.2%

Chart 18

World Semiconductor Shipments

Monthly US\$

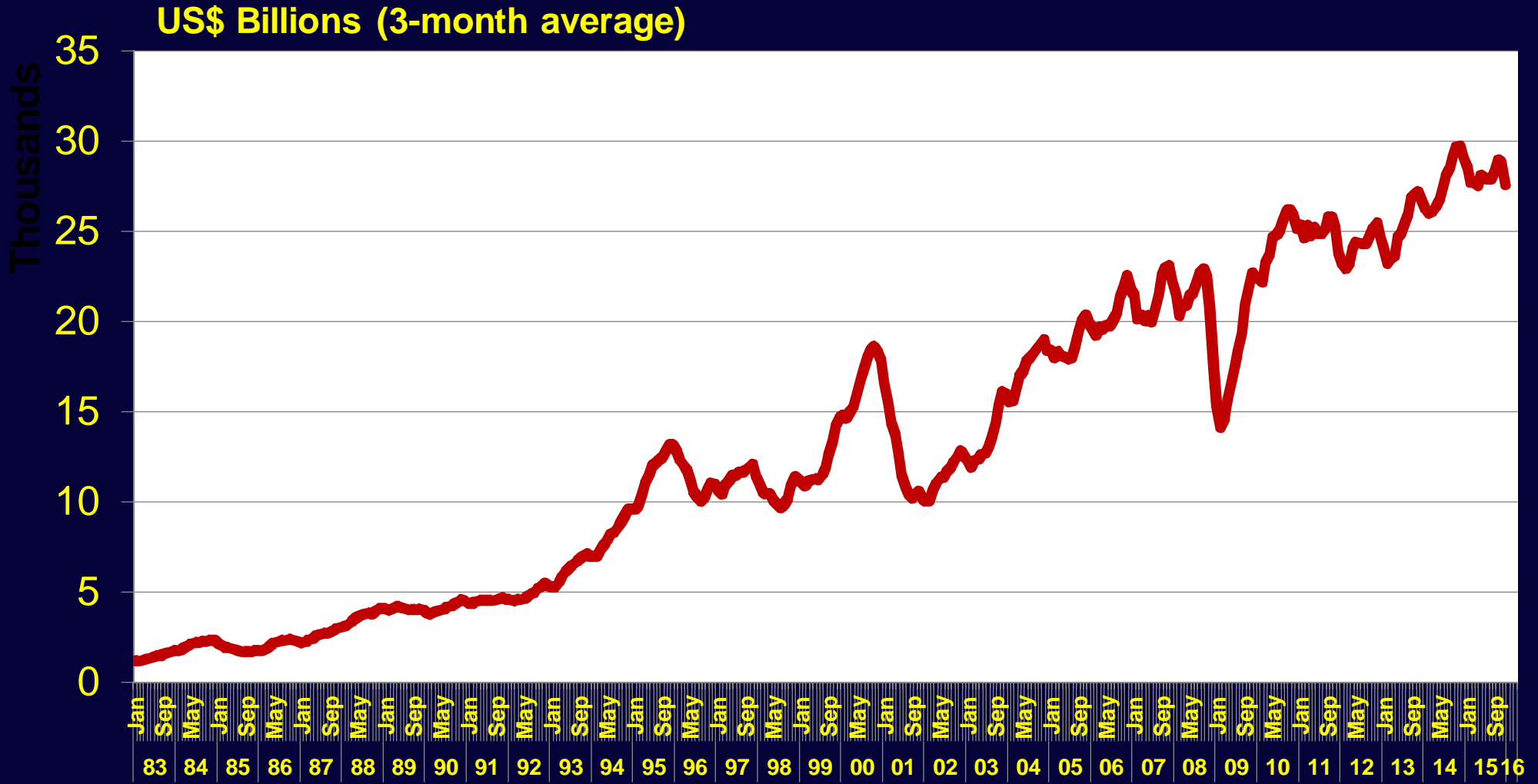
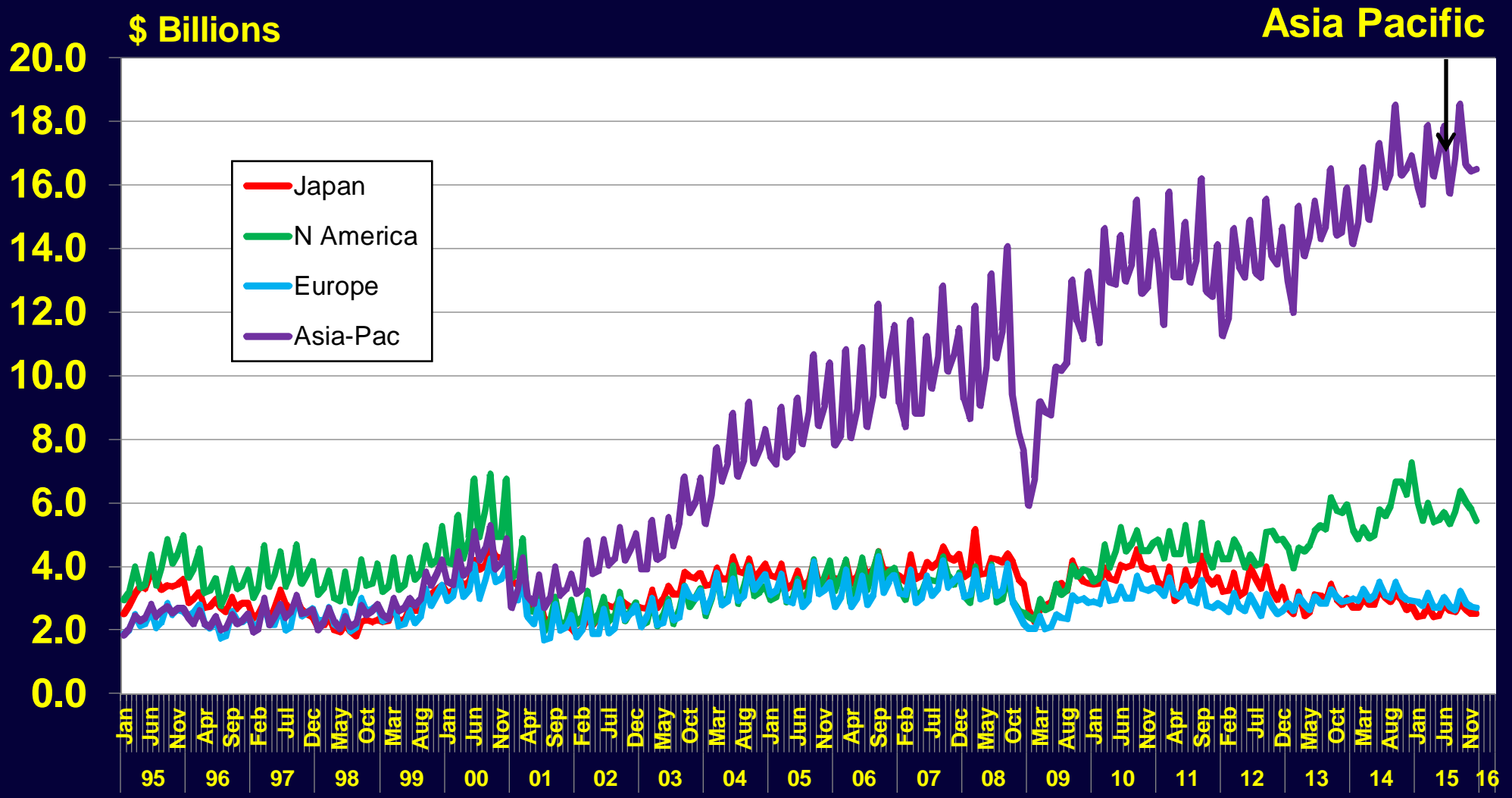


Chart 19

Total Semiconductor Shipments to an Area

Monthly Shipments - Reporting Firms



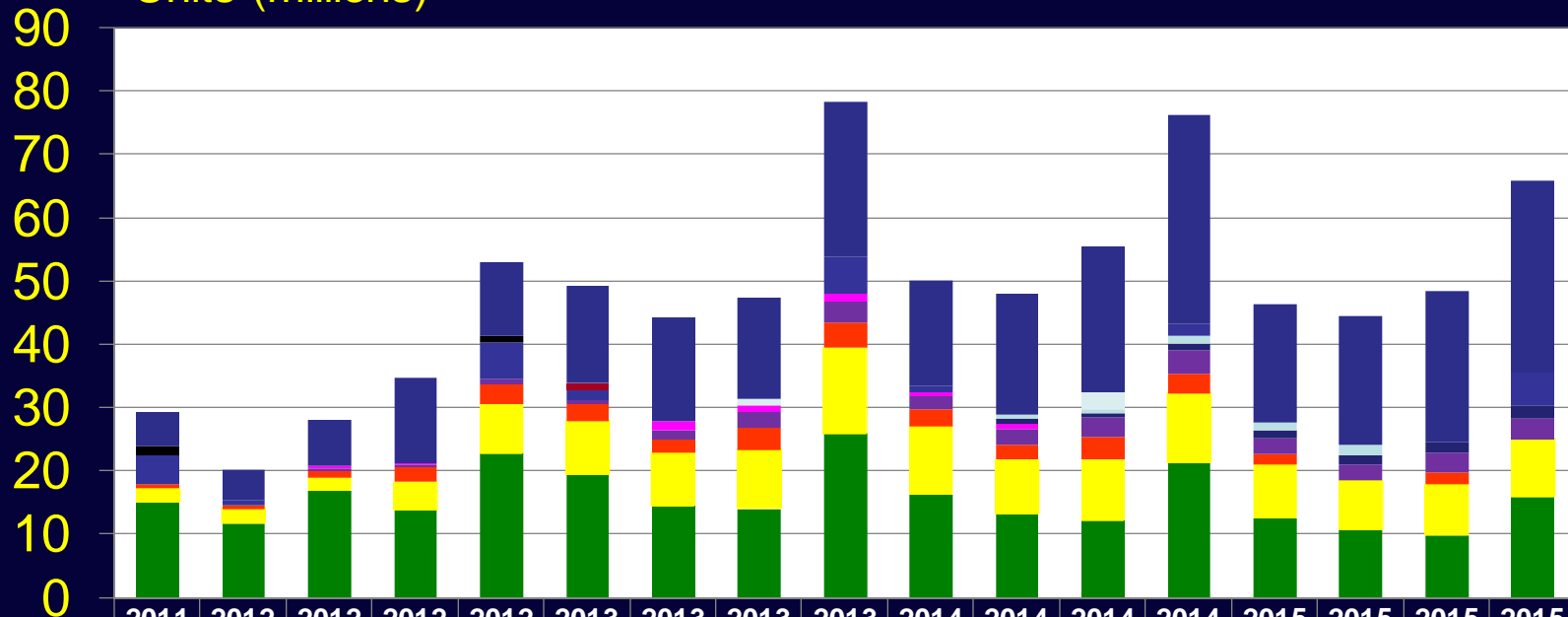
Wearable Devices 2015-2017

Millions of Devices

<u>Device</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>
Smartwatch	30.32	50.4	66.71
Head-mounted Display	0.14	1.43	6.31
Body-worn Camera	0.06	0.17	1.05
Bluetooth Headset	116.32	128.5	139.23
Wristband	30.15	34.97	44.1
Smart Garment	0.06	1.01	5.3
Chest Strap	12.88	13.02	7.99
Sports Watch	21.02	23.98	26.92
Other Fitness Monitor	21.07	21.11	25.08
Total	232.02	274.59	322.69

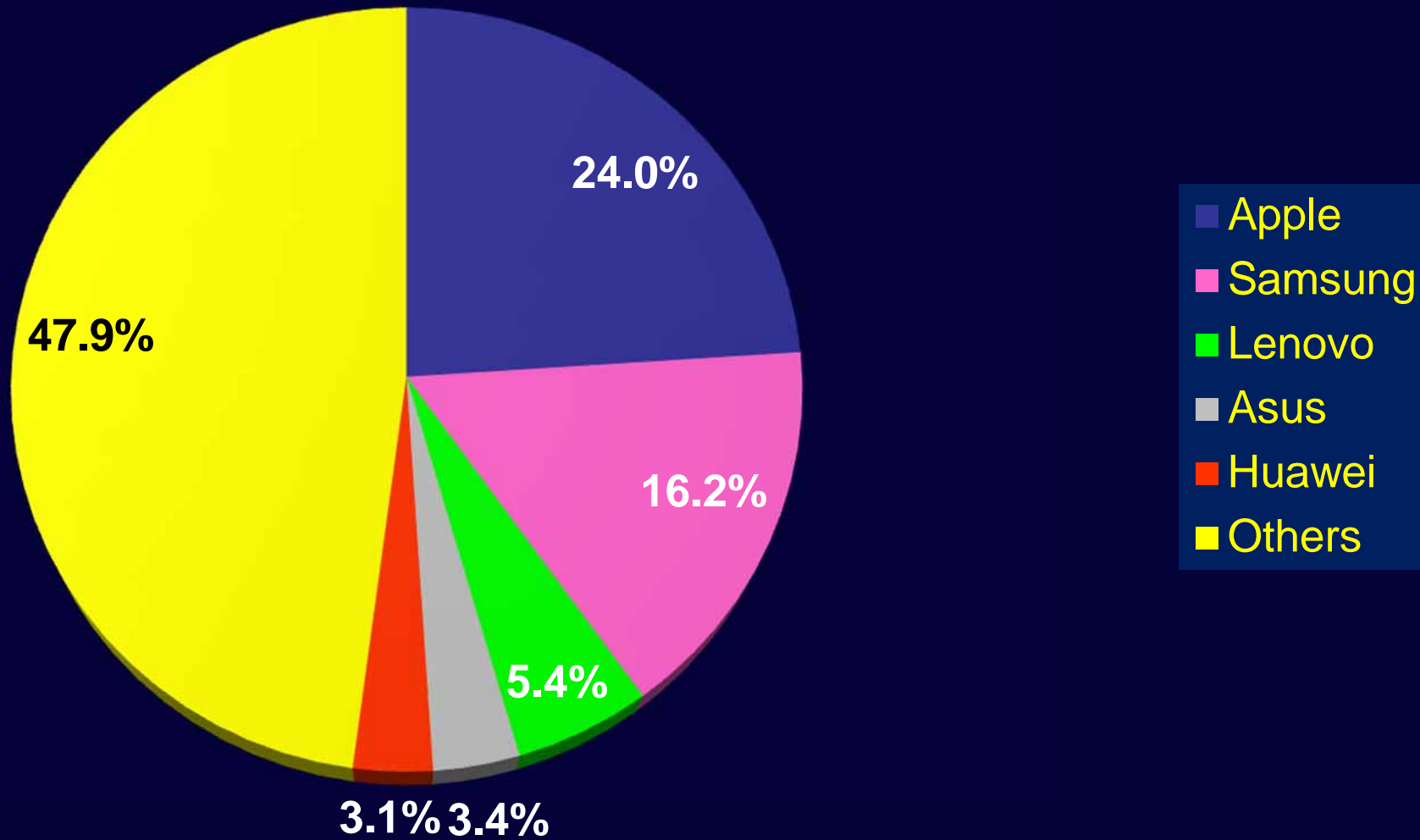
Media Tablets World Top 5 Vendors

Units (millions)



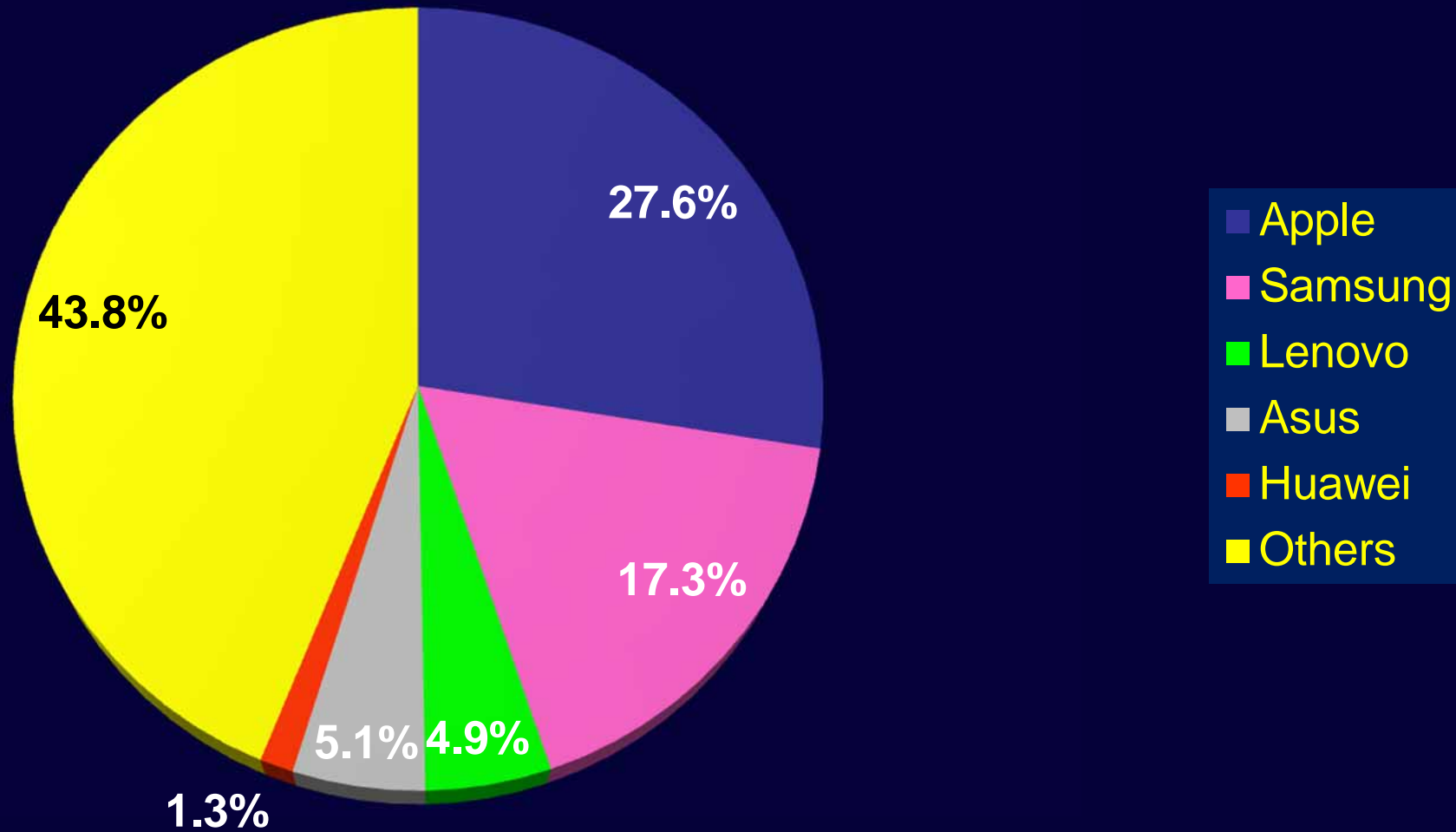
	2011 Q4	2012 Q1	2012 Q2	2012 Q3	2012 Q4	2013 Q1	2013 Q2	2013 Q3	2013 Q4	2014 Q1	2014 Q2	2014 Q3	2014 Q4	2015 Q1	2015 Q2	2015 Q3	2015 Q4
Others	5.5	4.9	7.4	13.5	11.6	15.5	16.4	16.0	24.6	16.6	19.1	23.0	33.1	18.6	20.4	23.9	30.2
RCA							0.9					2.6					
Barnes & Noble	1.4				1.0												
Microsoft		0.0				0.9											
Amazon	4.7	0.7			5.9	1.8			5.8	1.0			1.9				5.2
LG Electronics											0.5	0.7	1.3	1.4	1.6		
Huawei											0.8	0.7	1.0	1.1	1.6	1.8	2.2
Acer			0.4	0.3			1.5	1.2	1.1	0.7	1.0						
Lenovo			0.4	0.4	0.8	0.6	1.5	2.3	3.4	2.0	2.4	3.1	3.7	2.5	2.5	3.1	3.2
Asus	0.6	0.6	0.9	2.3	3.1	2.6	2.0	3.6	4.0	2.6	2.3	3.4	3.0	1.8		1.9	
Samsung	2.2	2.3	2.1	4.3	7.8	8.5	8.4	9.3	13.5	10.8	8.6	9.7	11.0	8.4	7.6	8.0	9.0
Apple	15.1	11.8	17.0	14.0	22.9	19.5	14.6	14.1	26.0	16.4	13.3	12.3	21.4	12.6	10.9	9.9	16.1

World Tablet Shipments 2015 Slate + Detachable



TOTAL: 206.8 Million Units

World Tablet Shipments 2014 Slate + Detachable



TOTAL: 230.1 Million Units