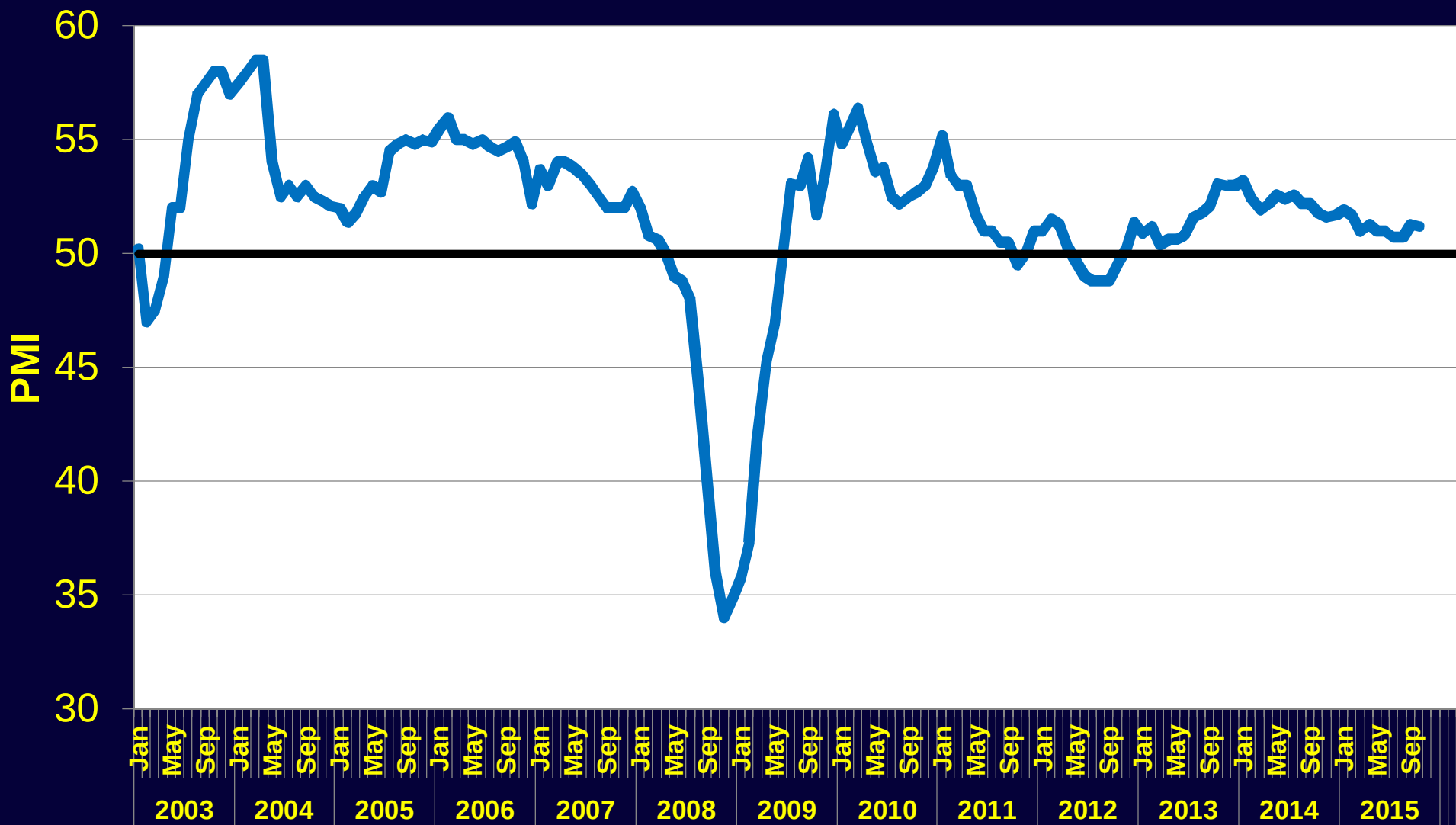


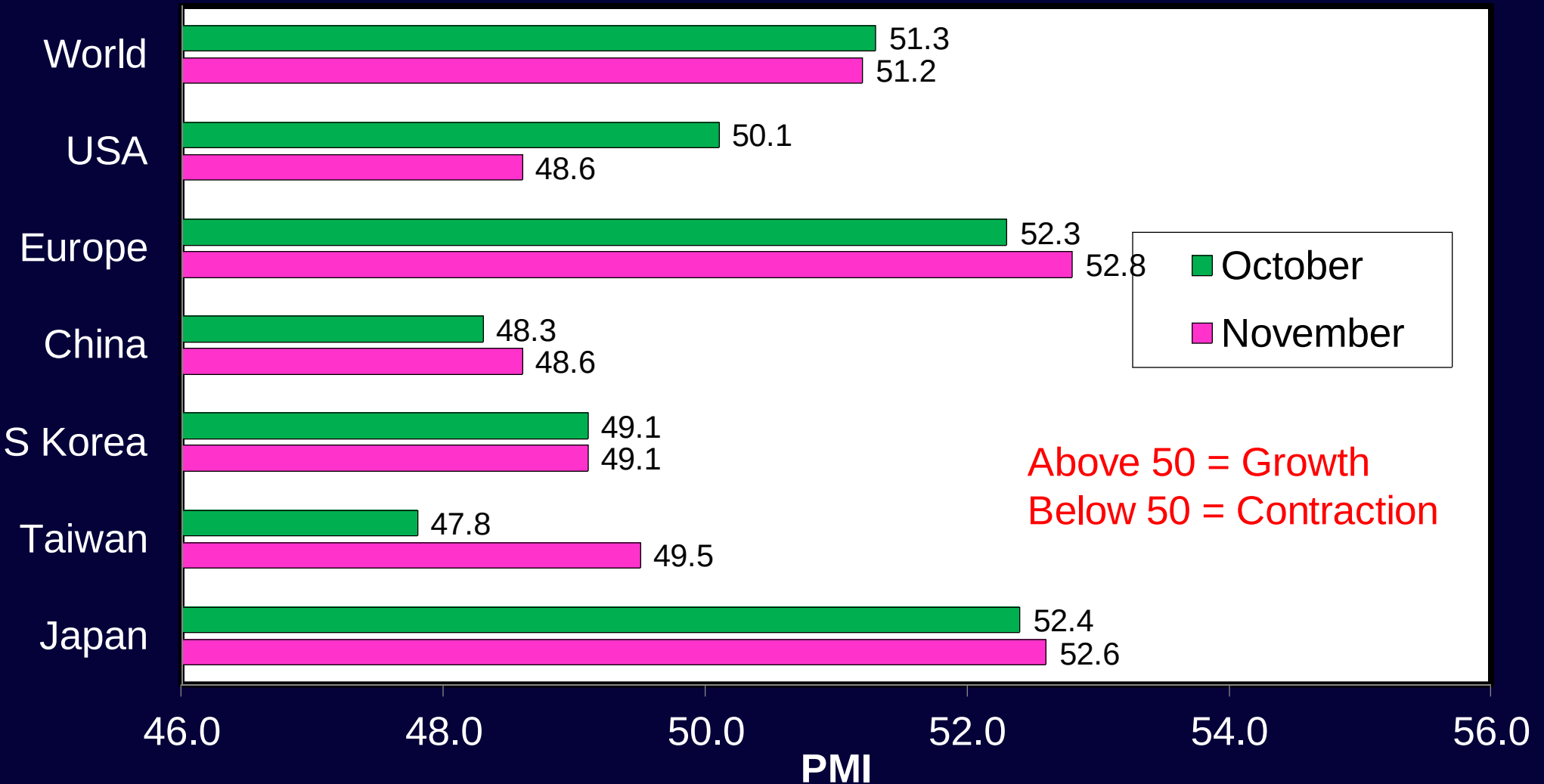
Chart 1

Global "Purchasing Managers" Index

Diffusion Index, >50 = Growth



Purchasing Managers' Indices November vs. October 2015



U.S "Purchasing Managers" Indices

ISM vs. Markit Economics

Diffusion Index, >50 = Growth

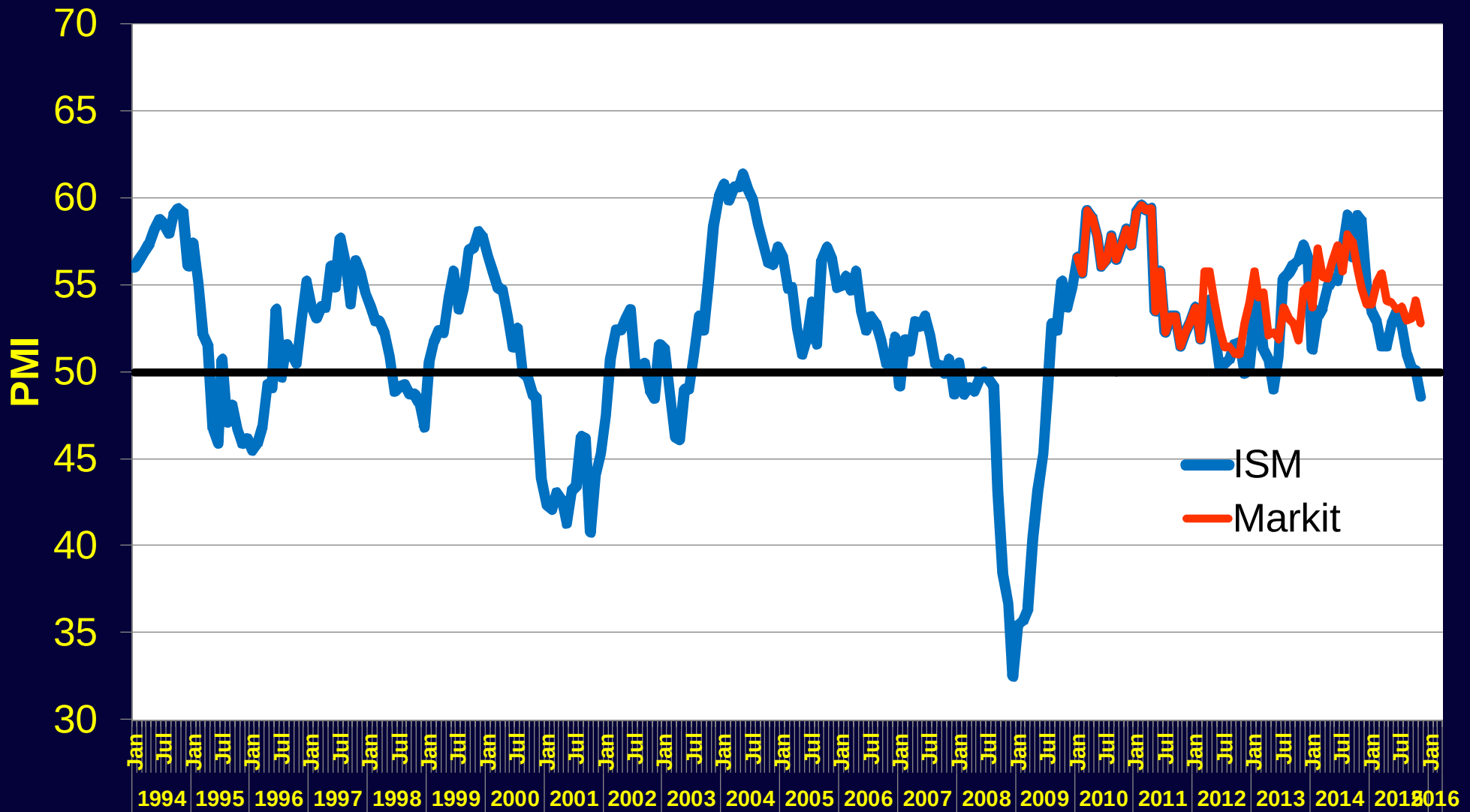


Chart 4

European Purchasing Managers' Indices November vs. October 2015

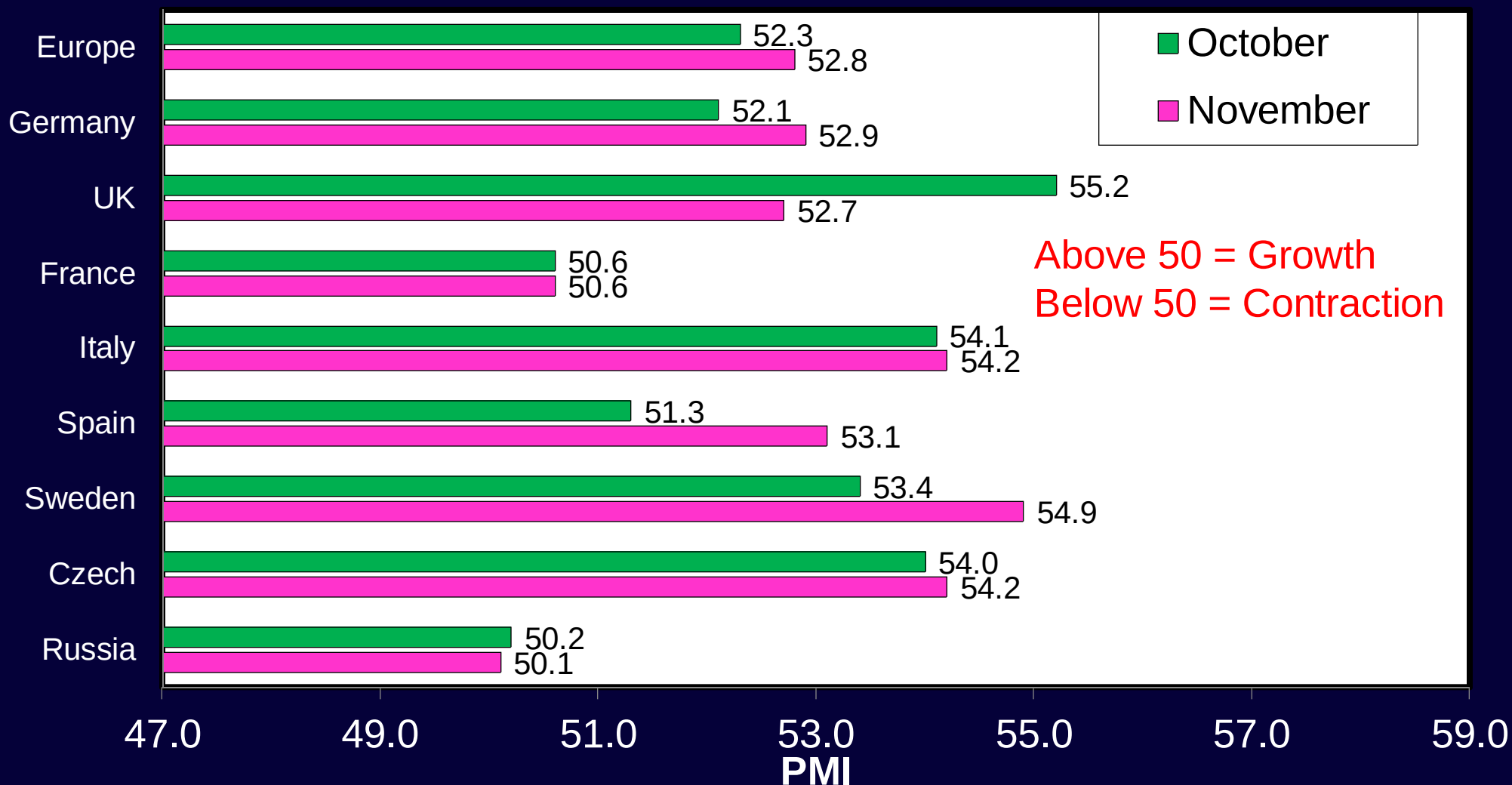


Chart 5

Eurozone "Purchasing Managers" Index

Diffusion Index, >50 = Growth

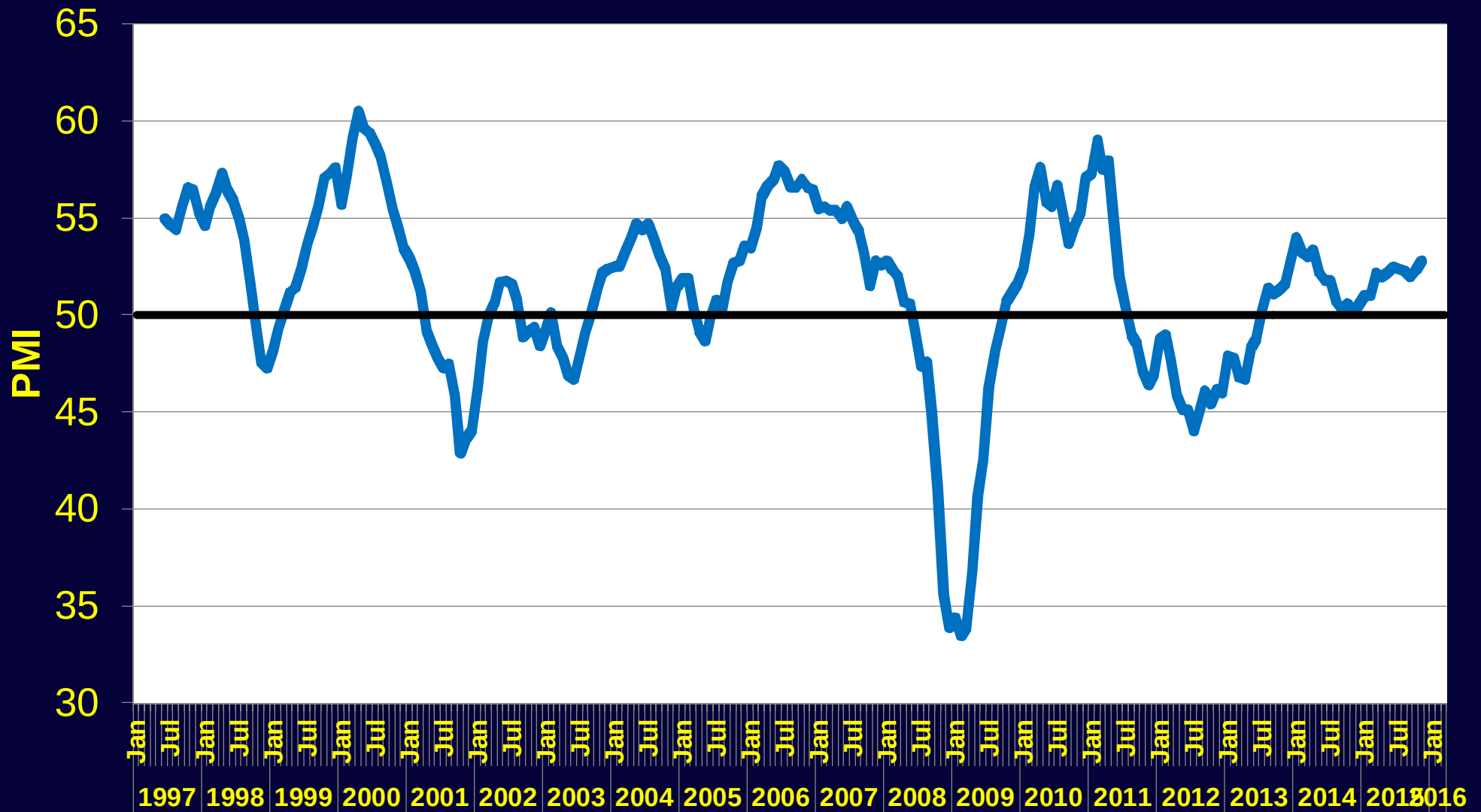


Chart 6

Asian Purchasing Managers' Indices November vs. October 2015

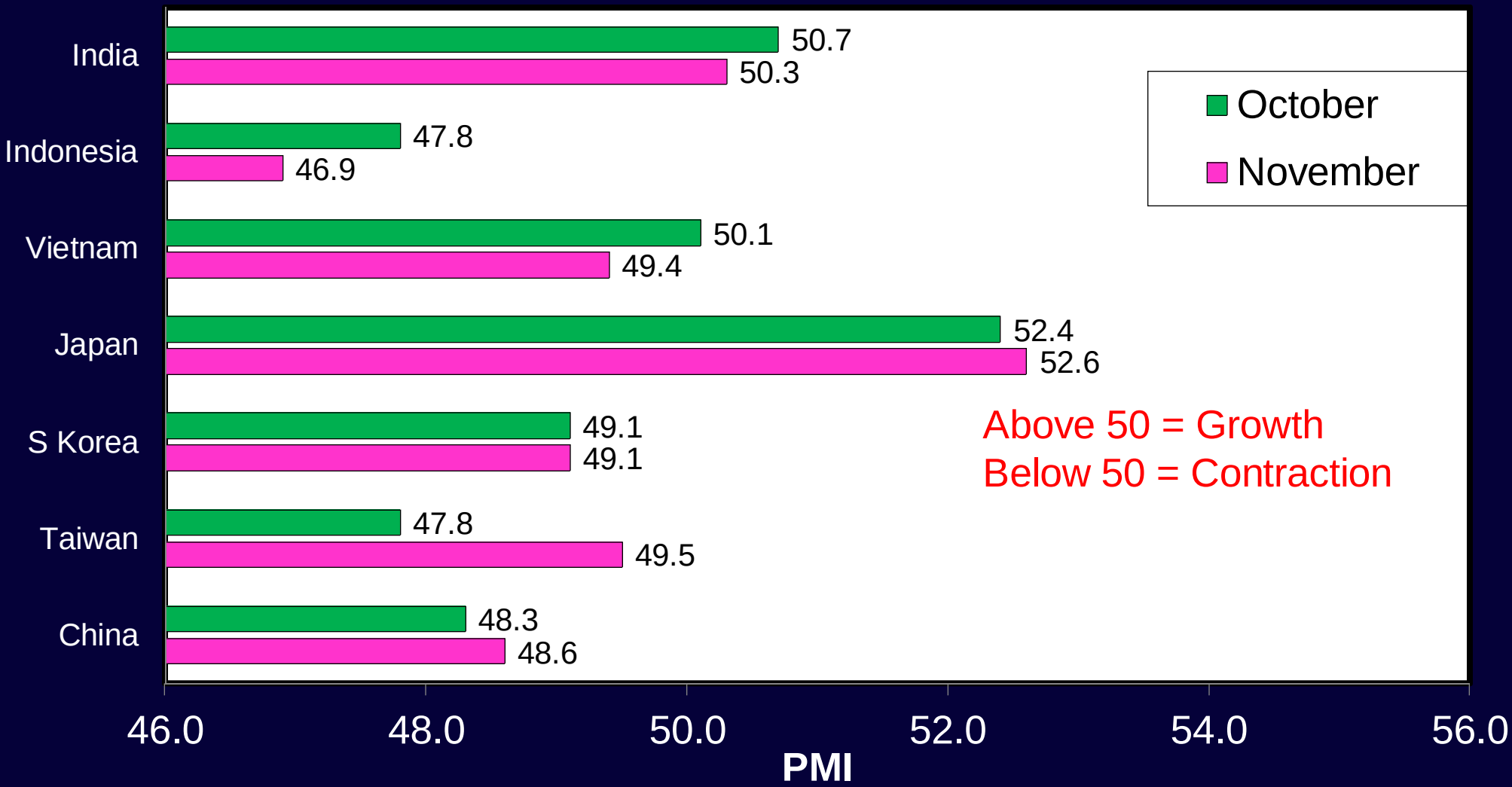


Chart 7

China "Purchasing Managers" Index

Diffusion Index, >50 = Growth

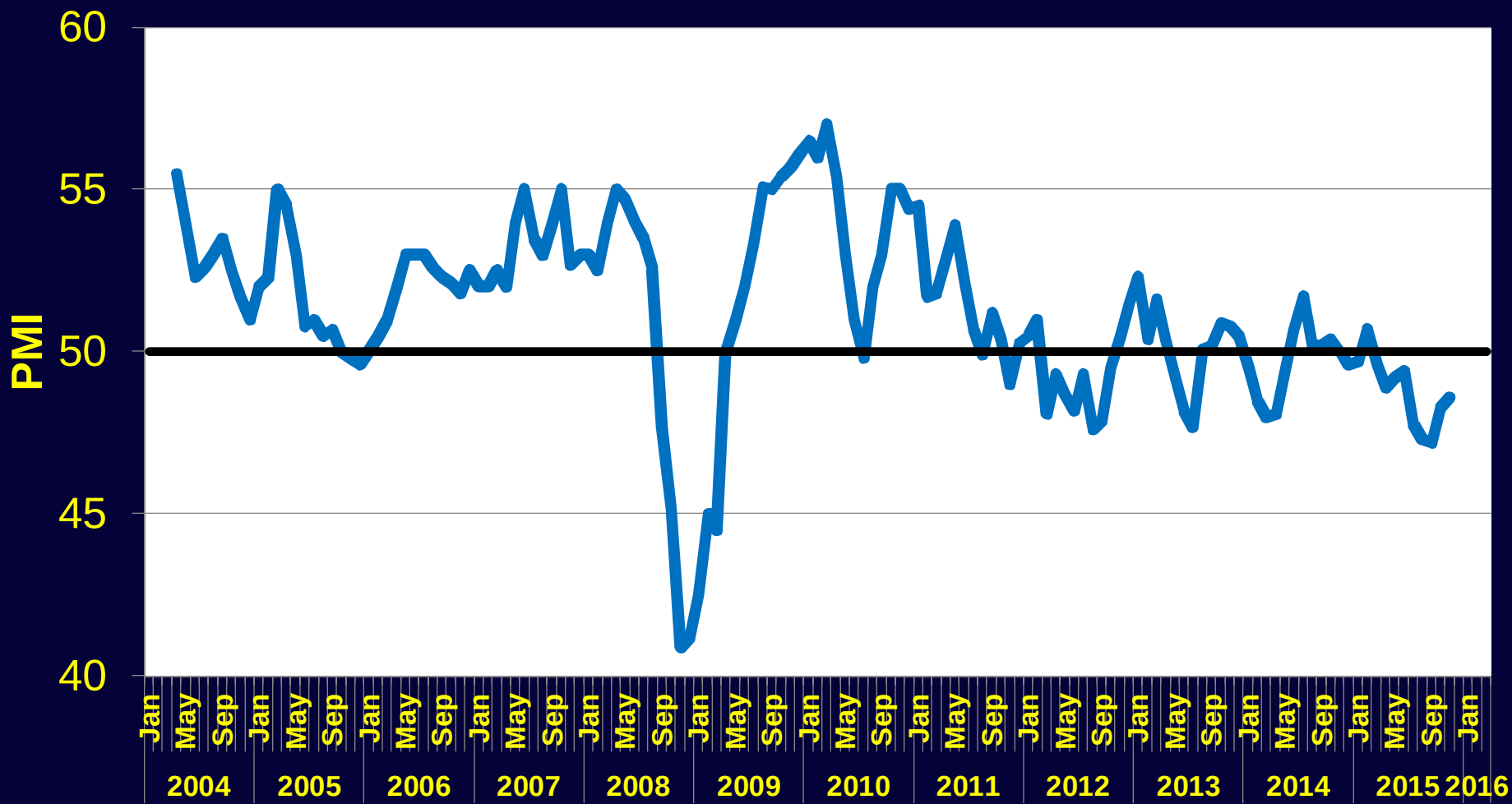
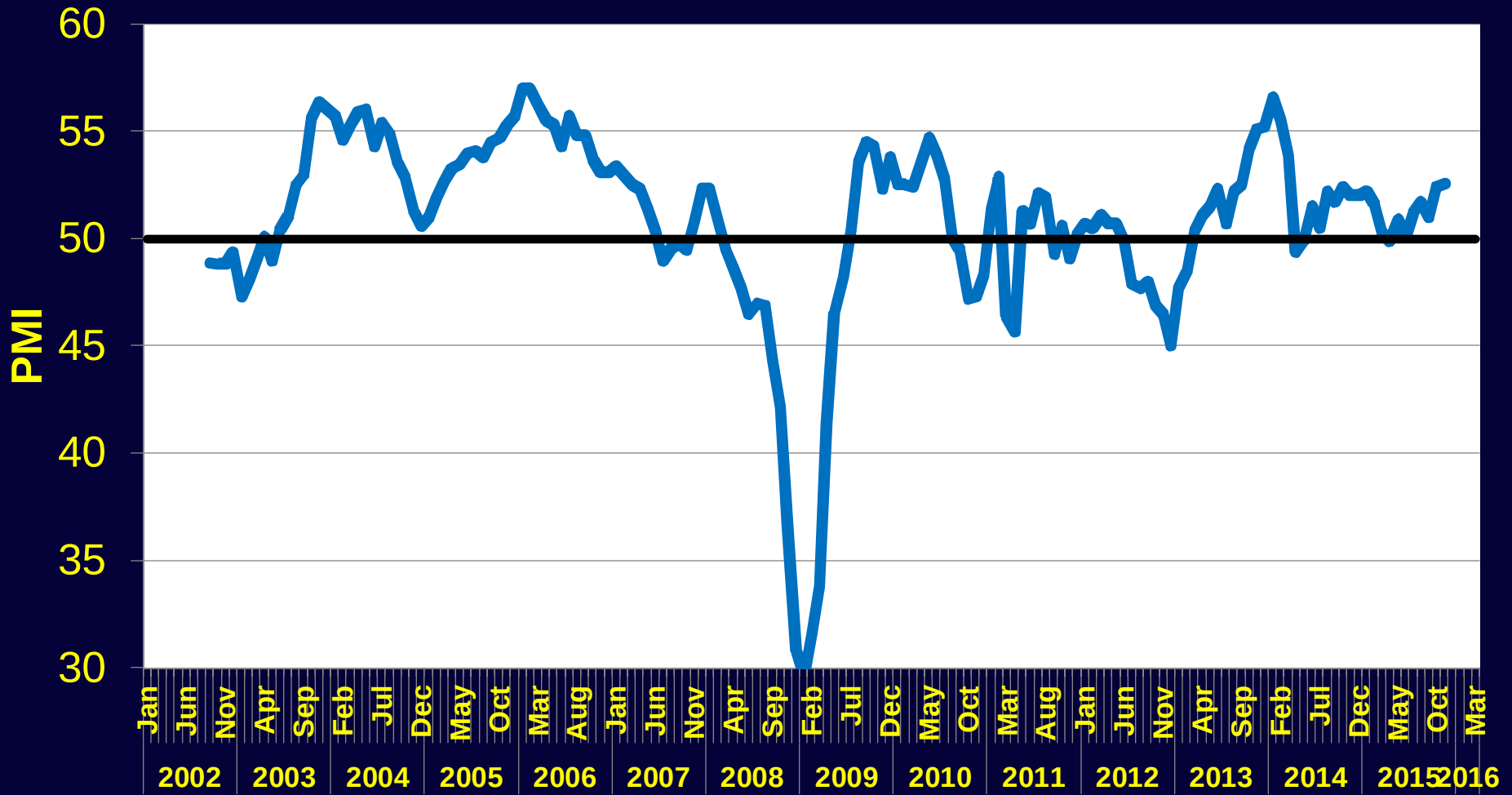


Chart 8

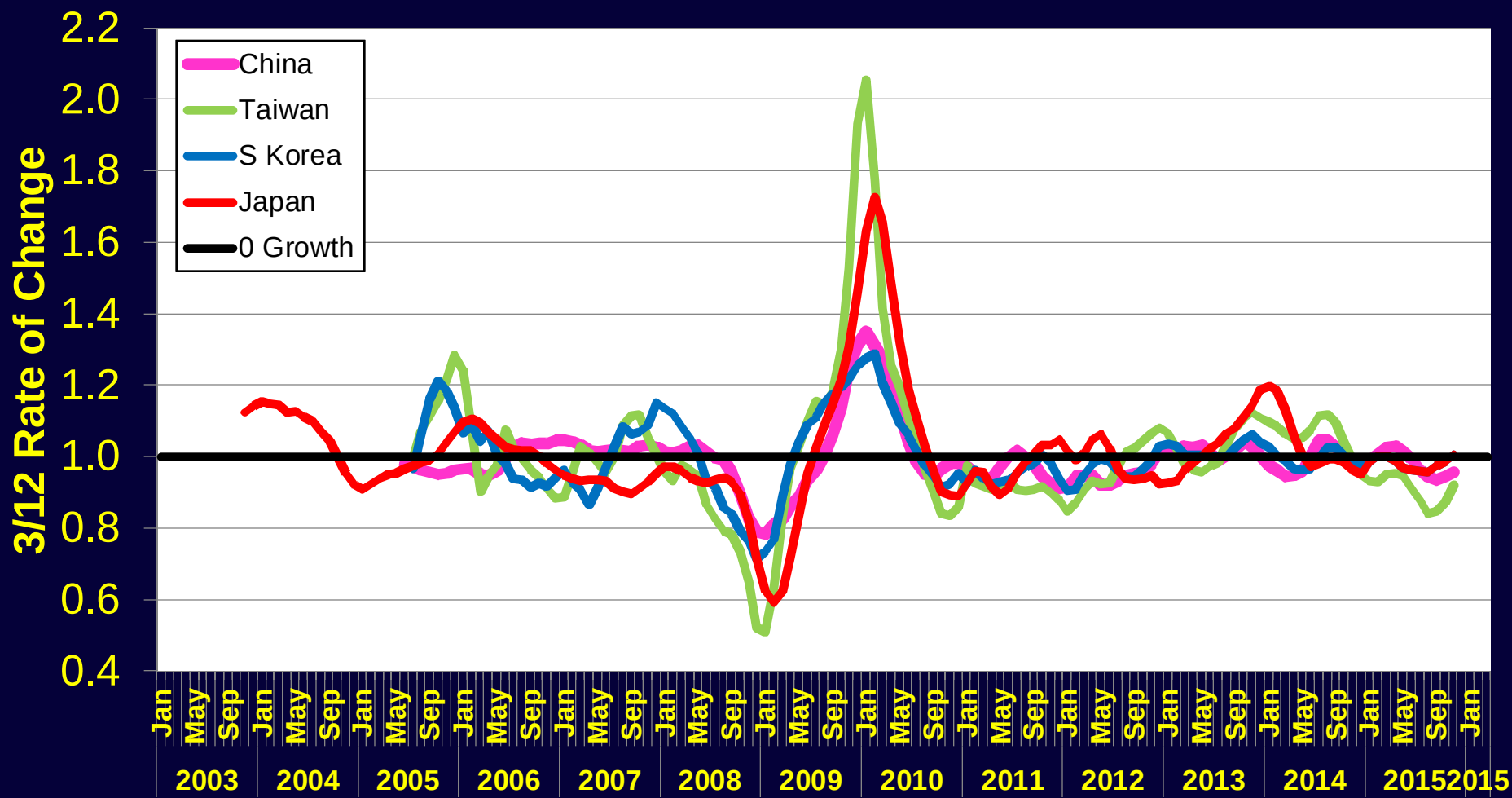
Japan "Purchasing Managers" Index

Diffusion Index, >50 = Growth



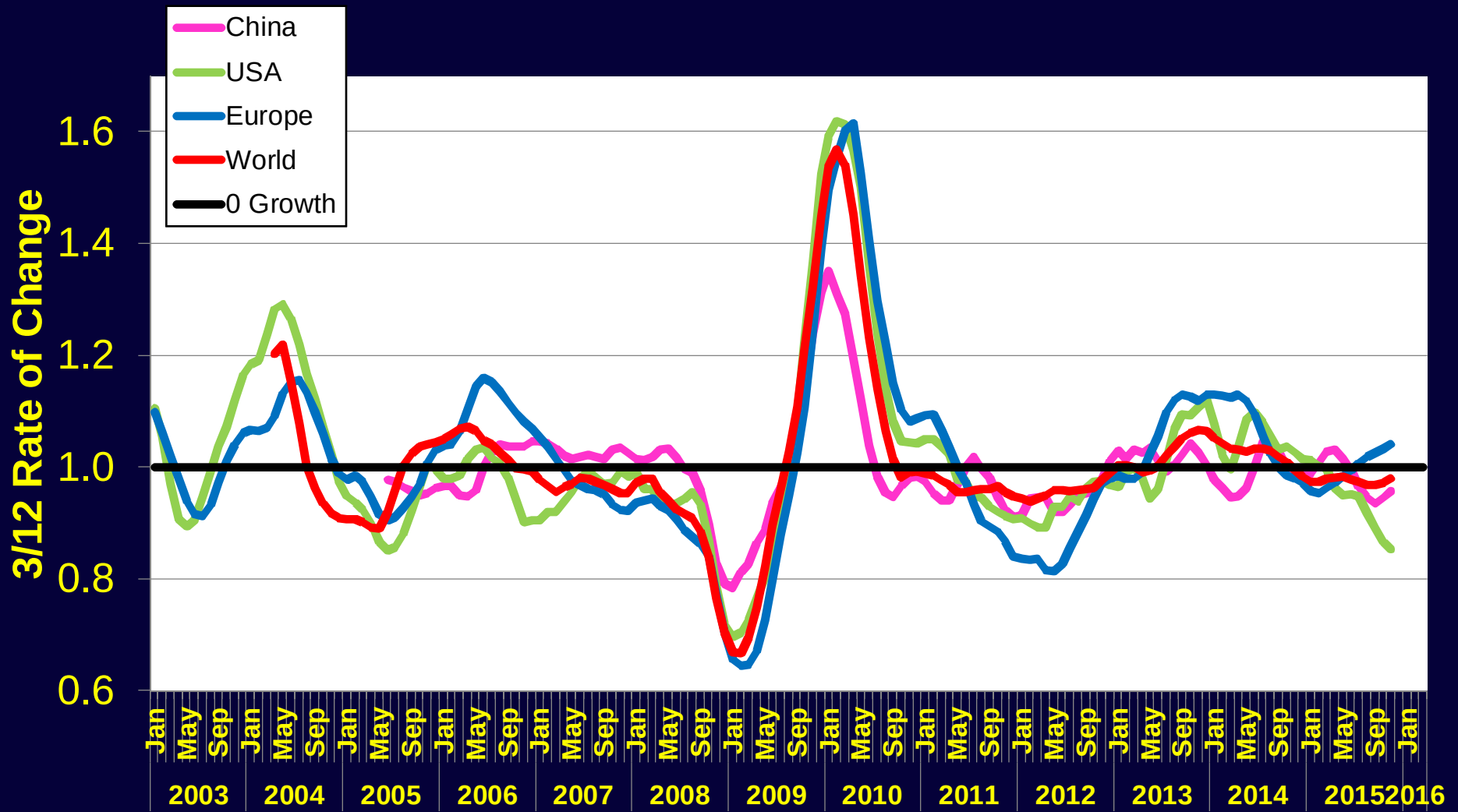
Asian Purchasing Managers Index

3/12 Rate of Change



World Purchasing Managers Index

3/12 Rate of Change



Monthly Semiconductor Shipments

\$ Billions (3-month avg in US\$)

	<u>10/14</u>	<u>10/15</u>	<u>% CH</u>
Americas	6.41	6.05	- 5.6%
Europe	3.21	2.90	- 9.4%
Japan	3.01	2.70	- 10.5%
China	8.12	8.58	+ 5.7%
Asia Pacific / All Other	8.94	8.72	- 2.4%
Total	29.68	28.96	- 2.5%

World Semiconductor Shipments

Monthly US\$

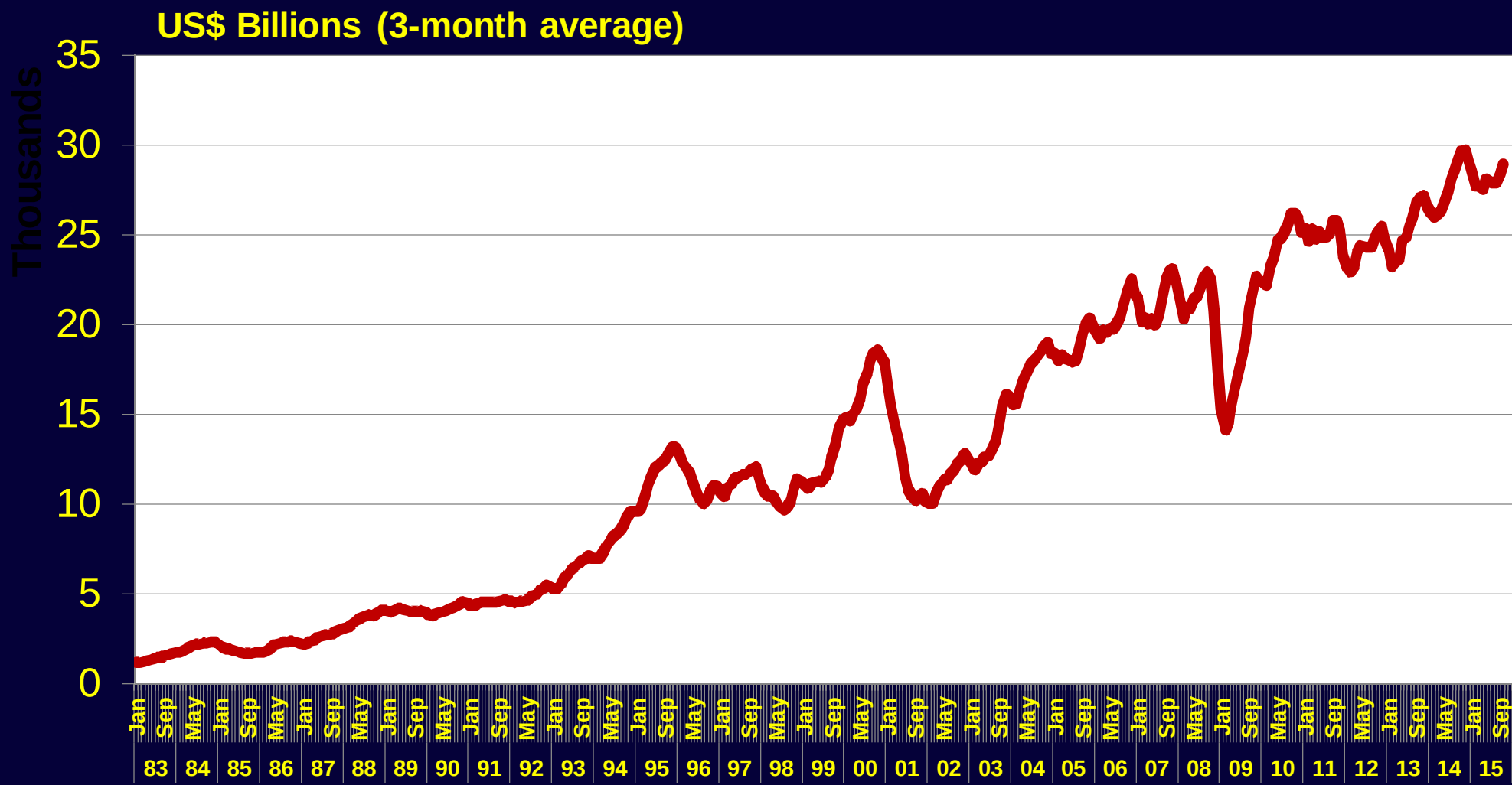


Chart 13

Total Semiconductor Shipments to an Area

Monthly Shipments - Reporting Firms

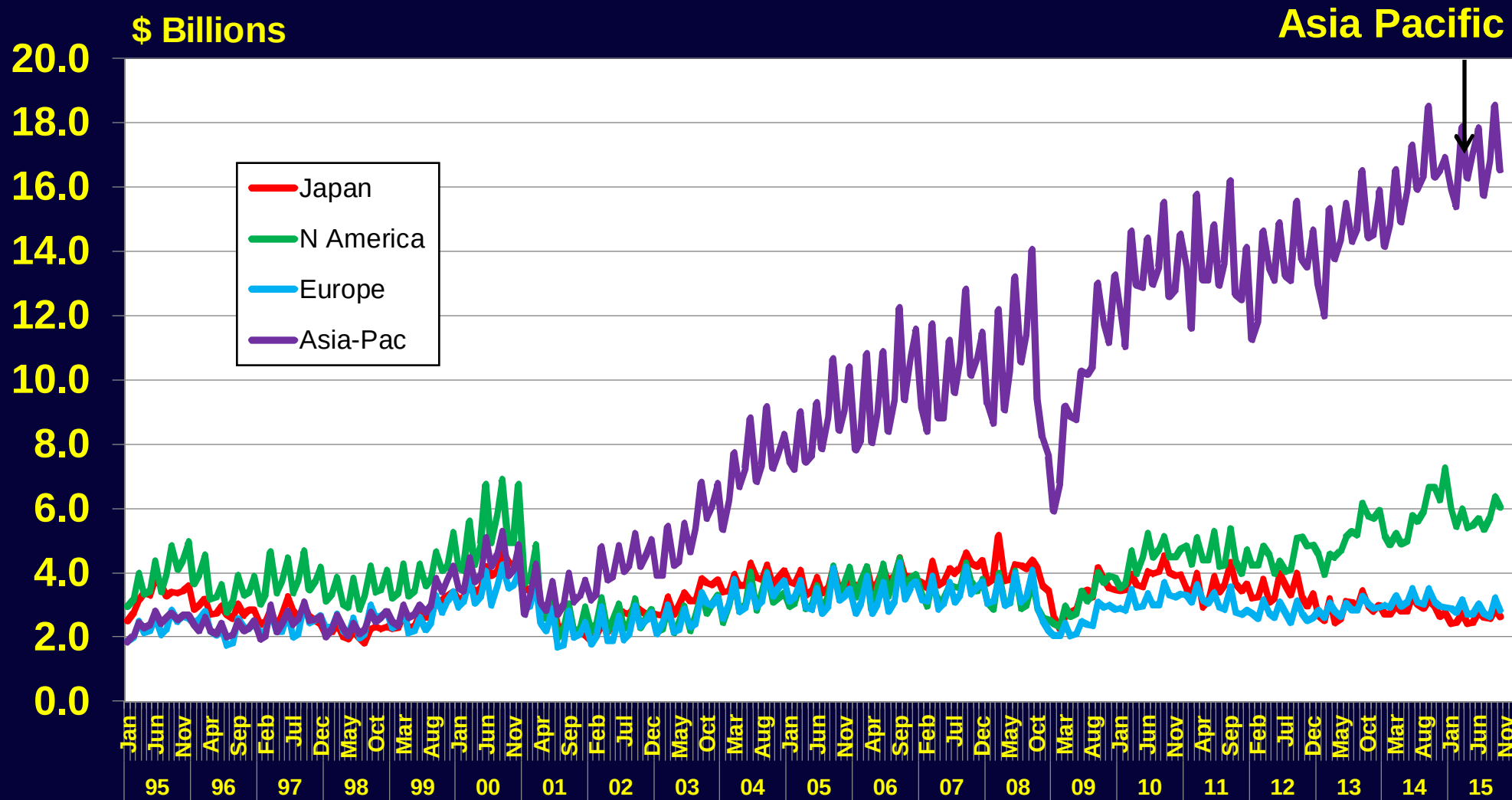




Chart 15

Worldwide Semiconductor Market by Geography

WSTS Forecast

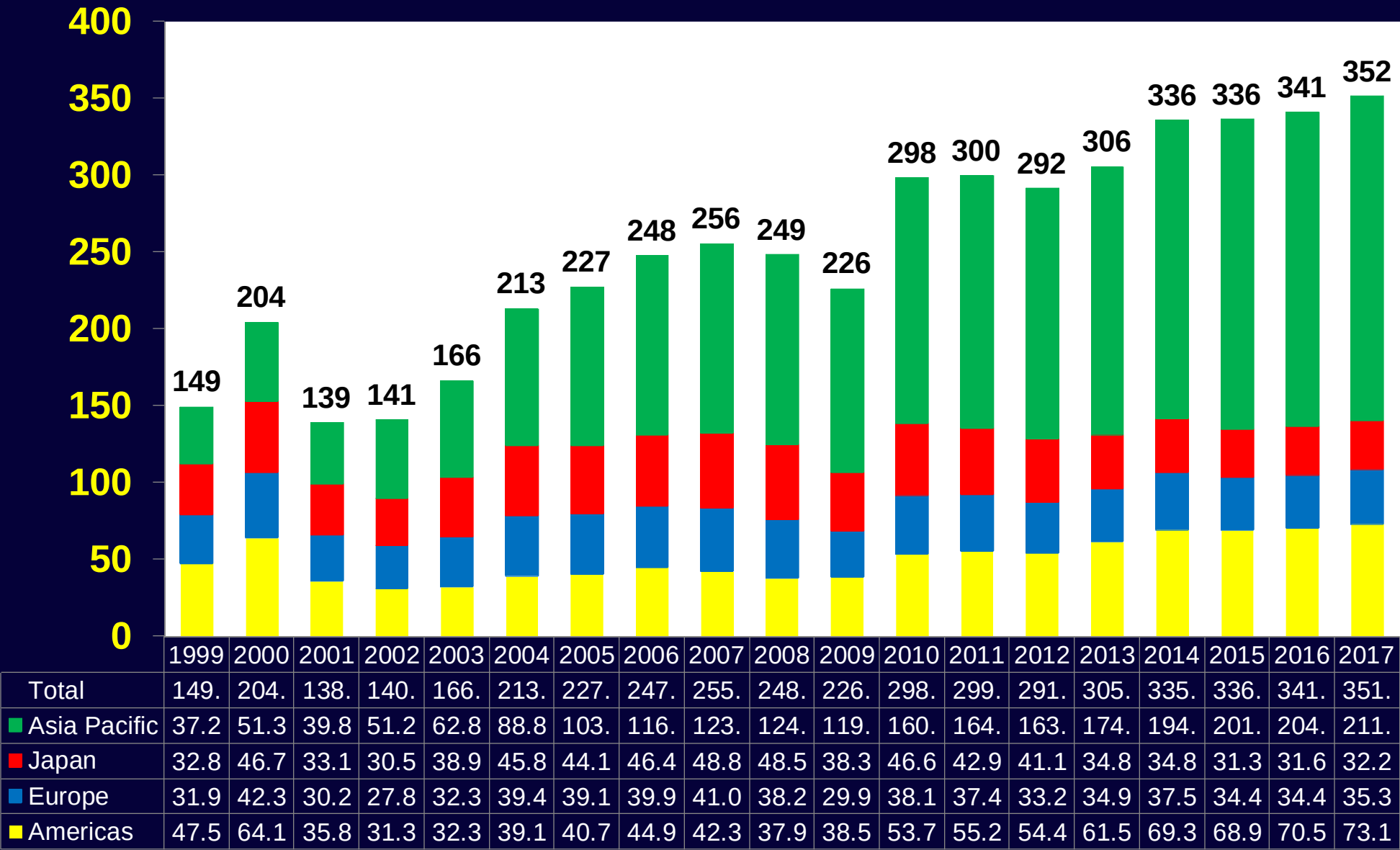


Chart 16

Worldwide Semiconductor Market by Type
WSTS Forecast

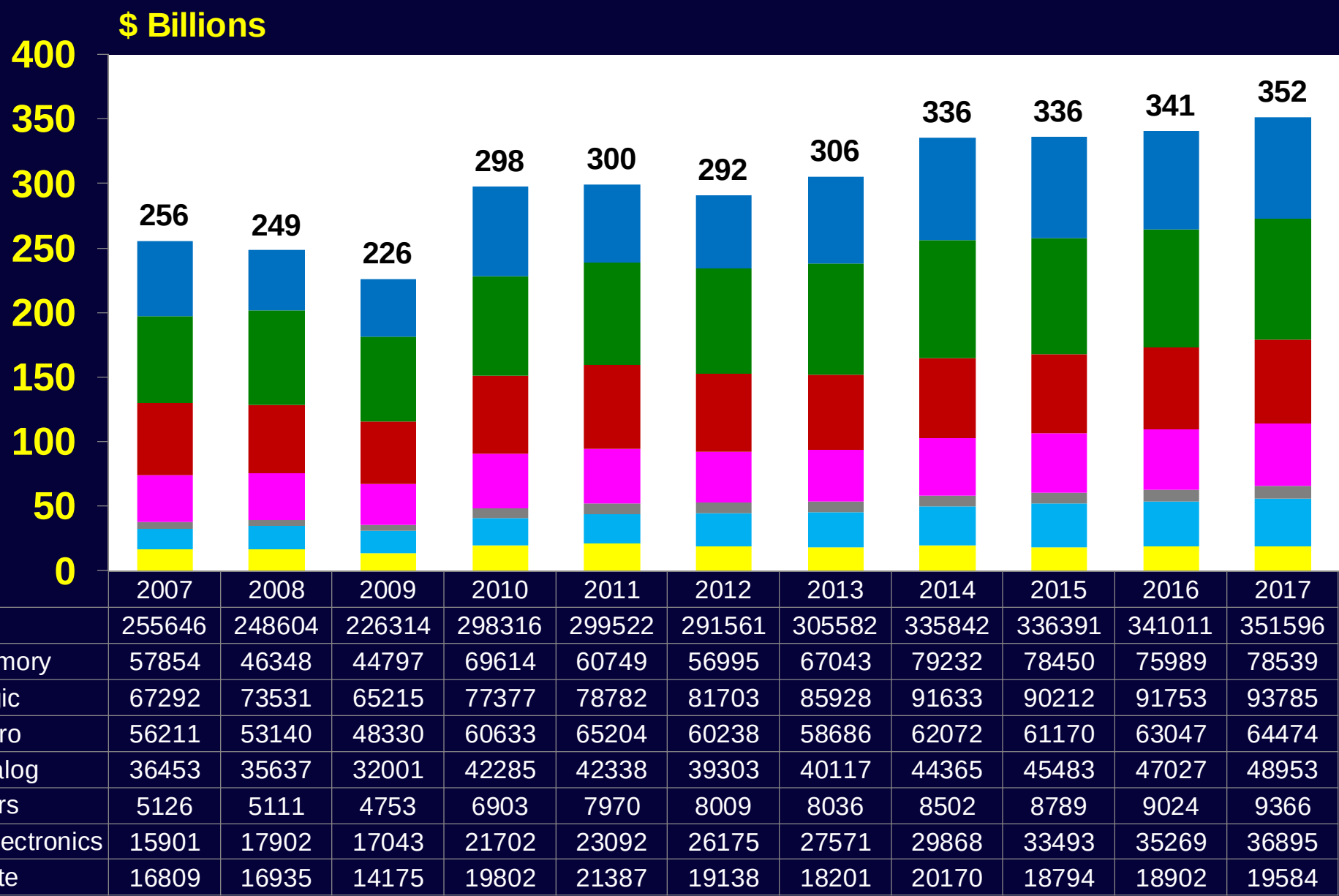
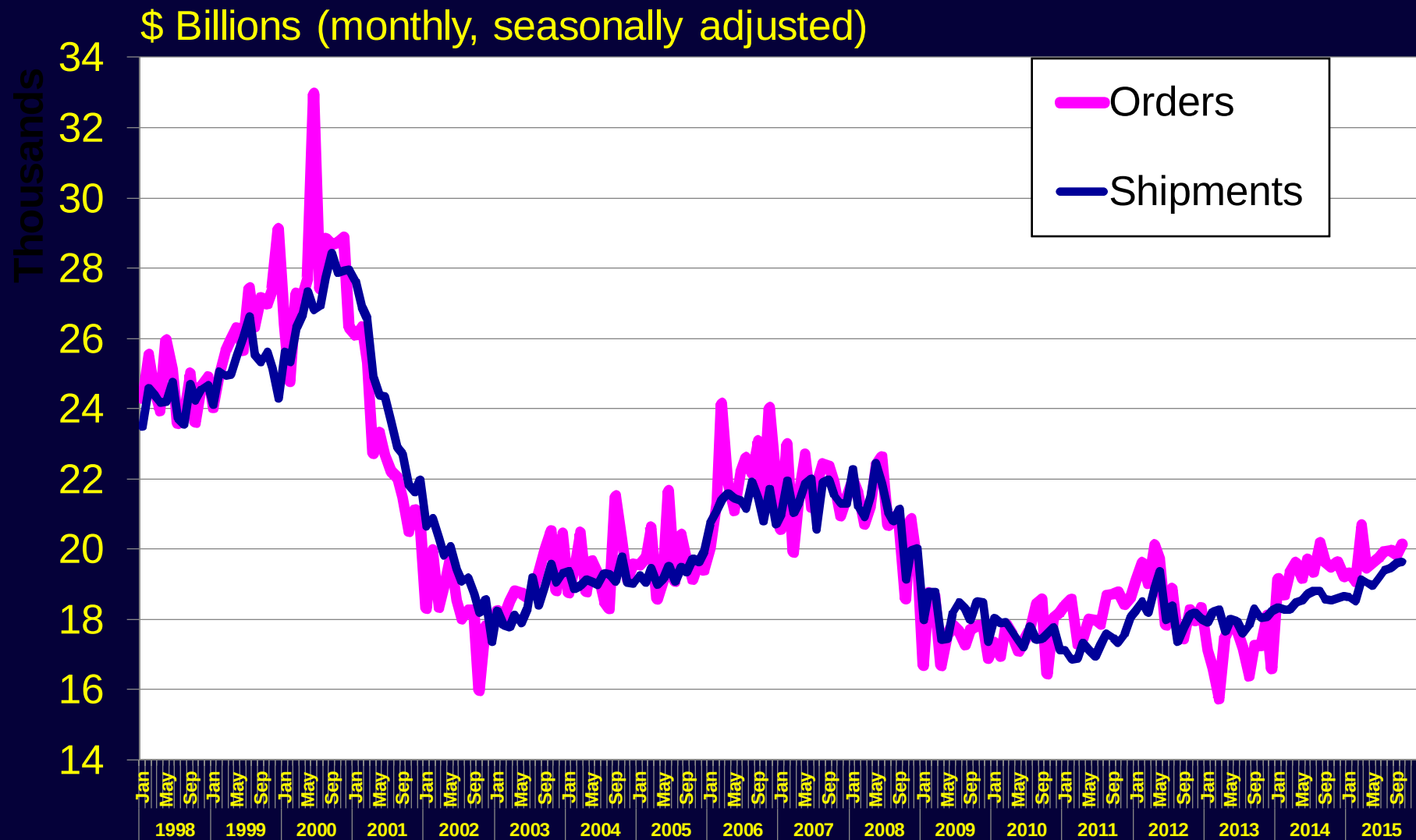


Chart 17

U.S. Electronic Equipment Orders & Shipments

Computer, Communications, Measurement & Control and Military



U.S. Electronic Equipment Orders

Monthly Data

\$ Billions (monthly, seasonally adjusted)

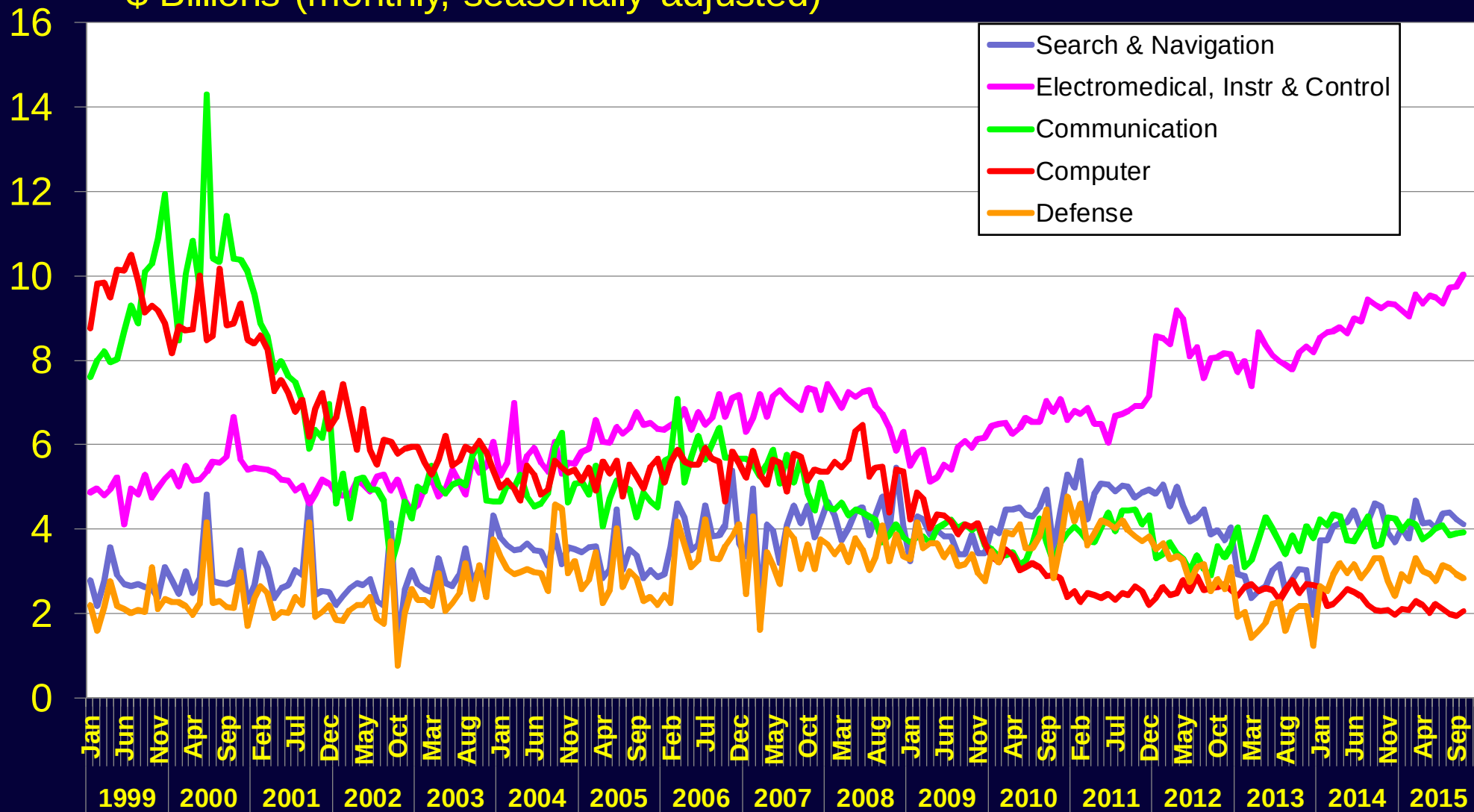
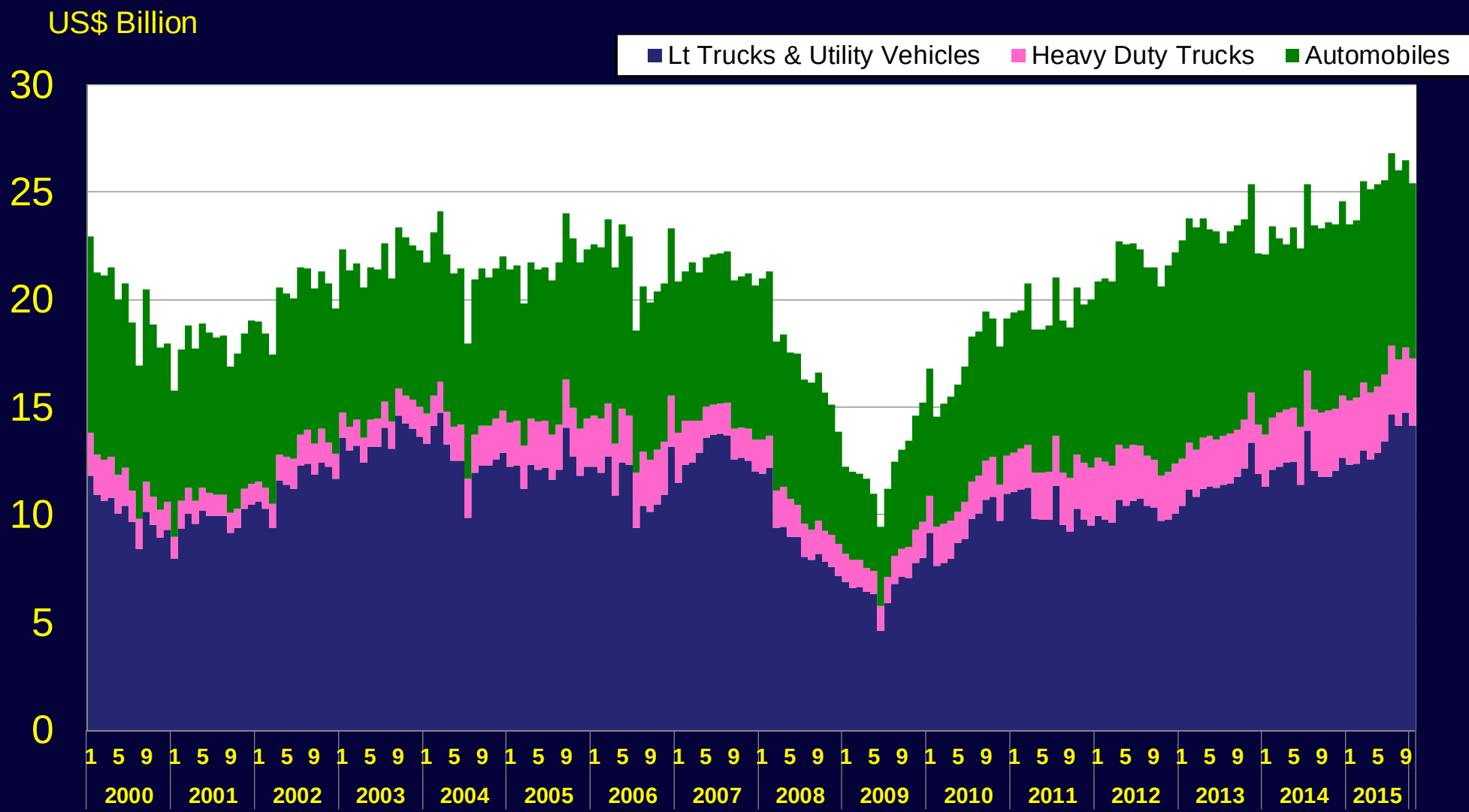


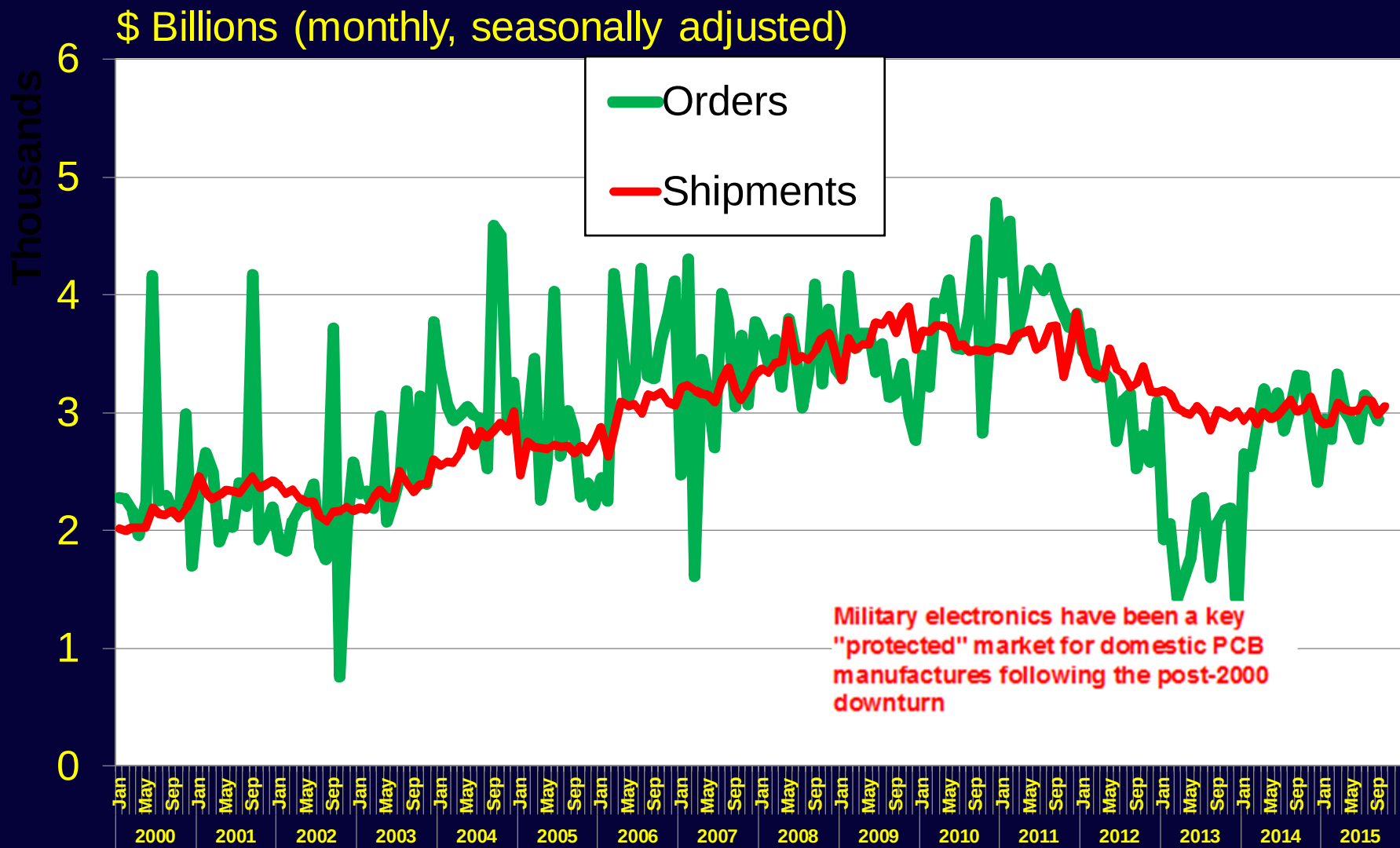
Chart 19

U.S. Vehicle Shipments



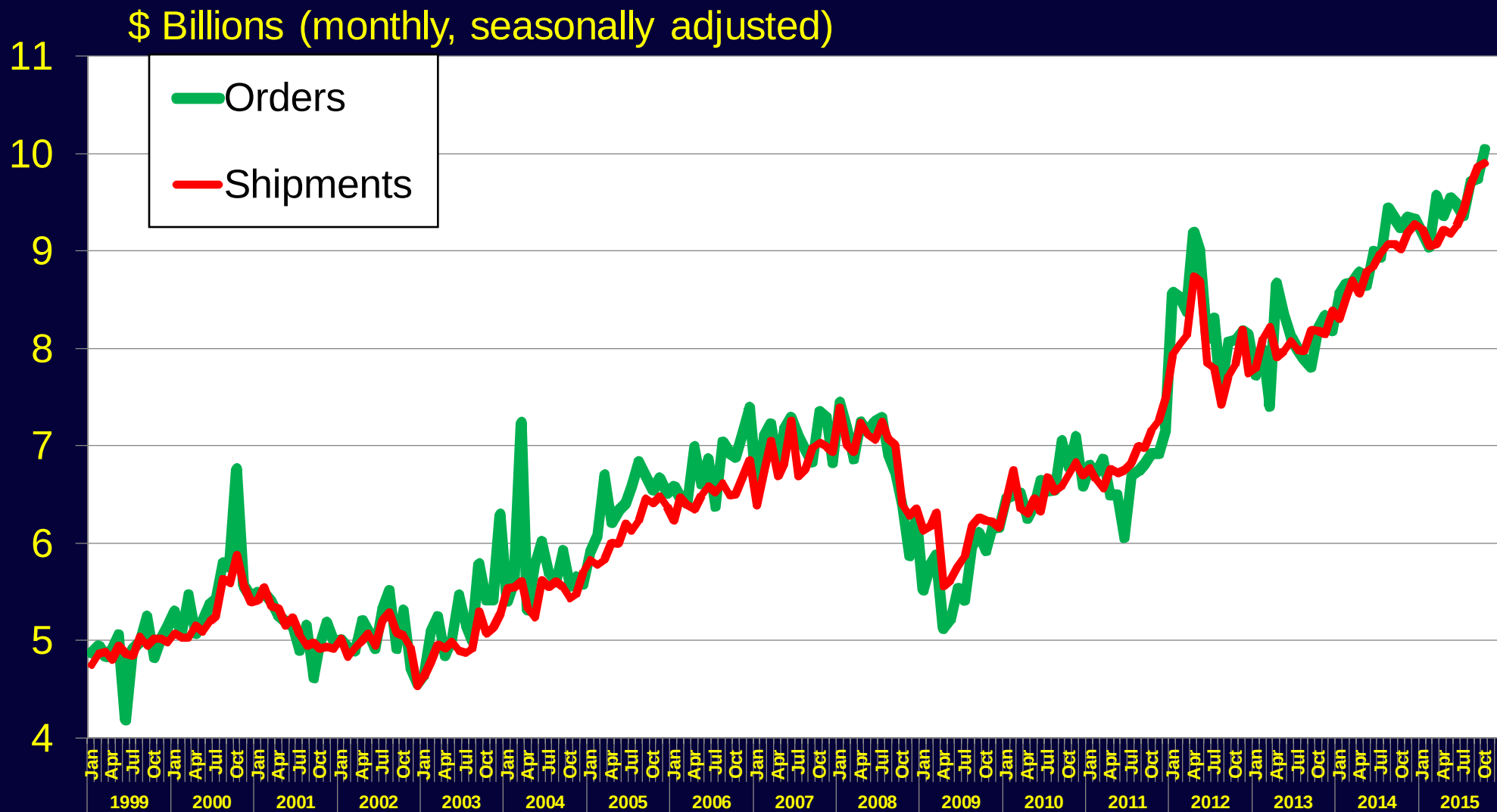
U.S. Military Electronics Orders & Shipments

Defense Communication & Search & Navigation Equipment

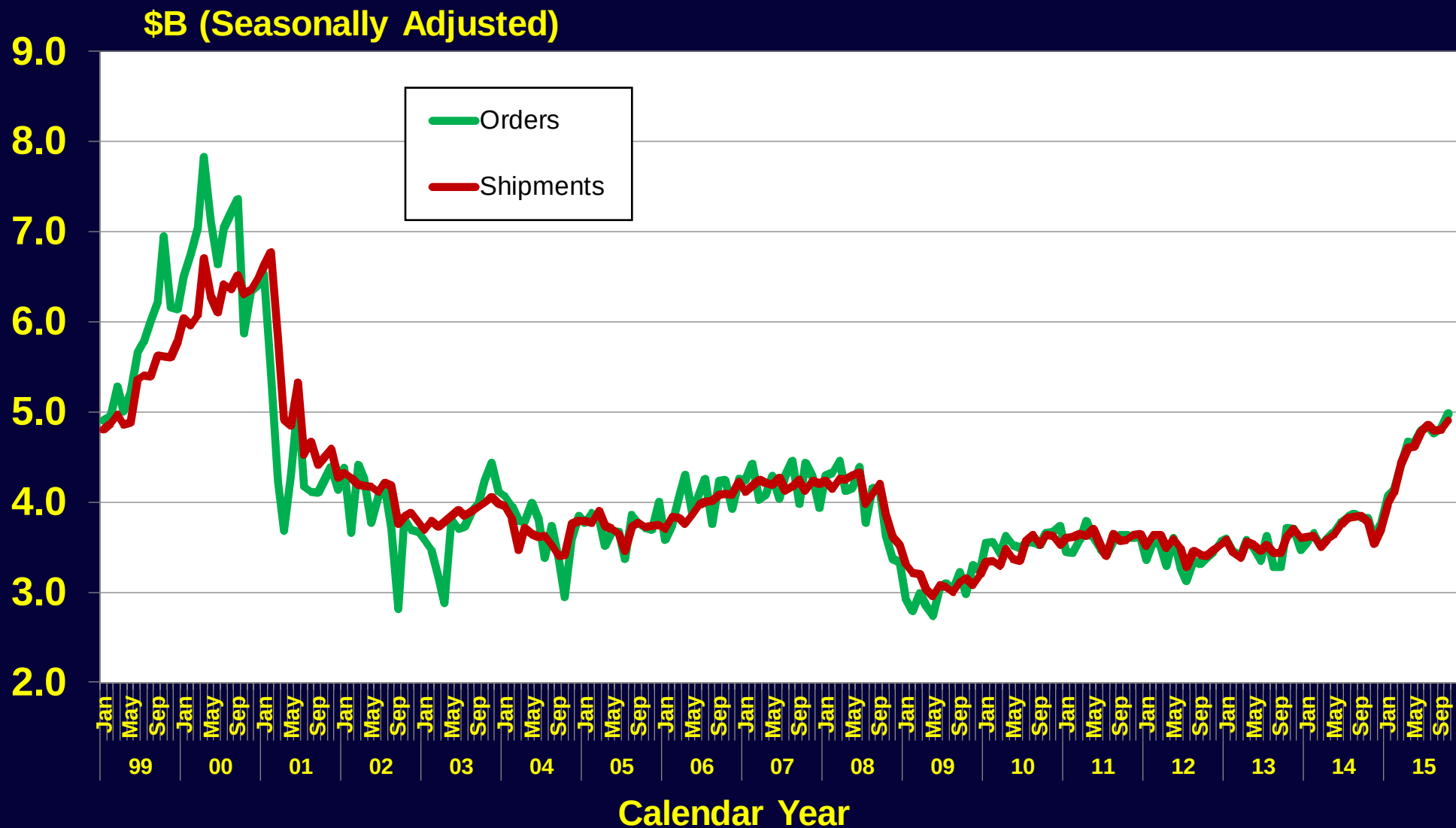


U.S. Electromedical, Measurement & Control Equipment Orders & Shipments

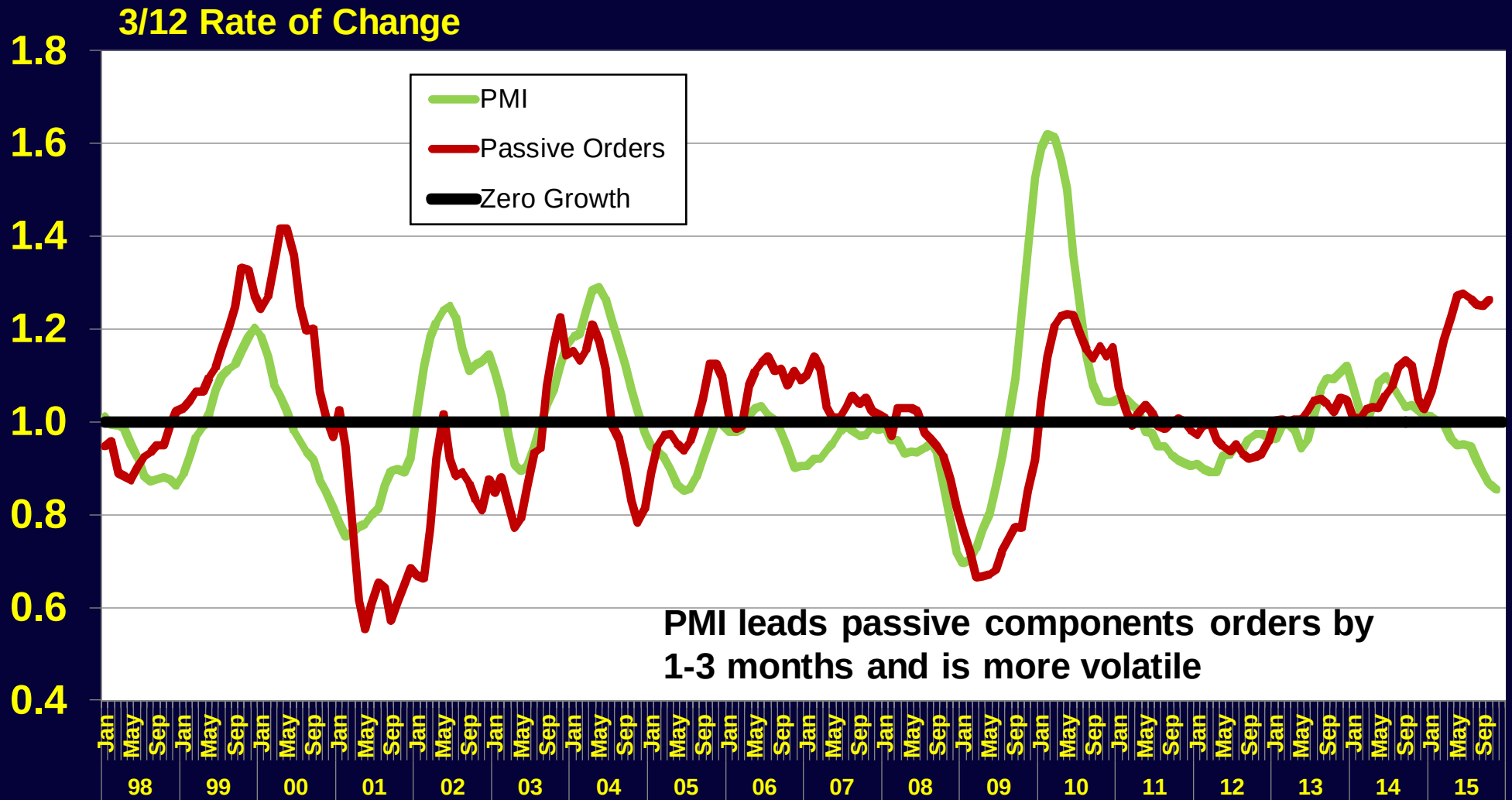
20151204



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



U.S. Passive Component Orders vs. U.S. PMI



Present Growth Rates (%)

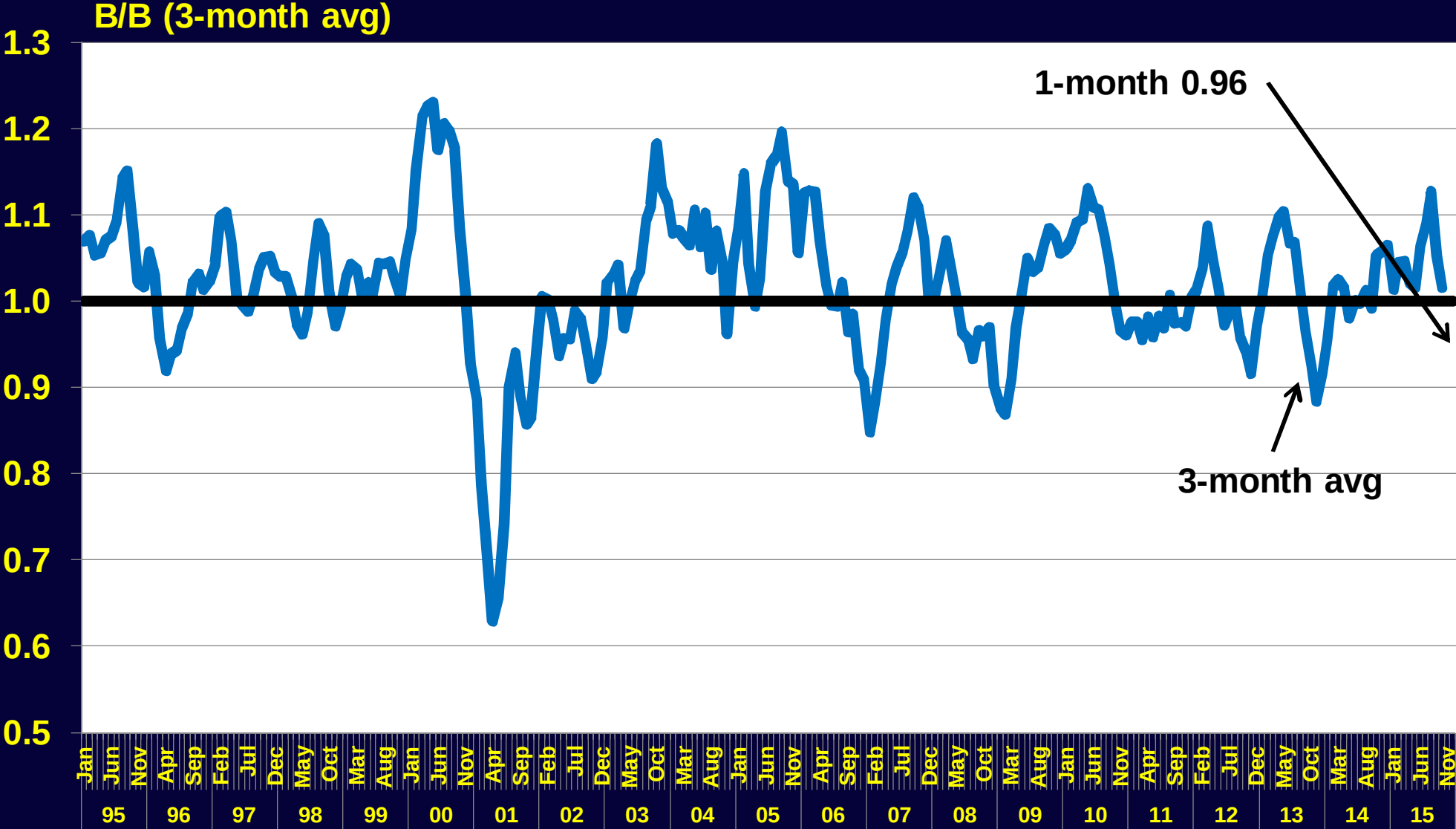
U.S. Economy & Electronics Industry

	Latest Month	Annual Growth	3-Month Growth
Electronic Component \$			
Rigid & Flex PCB Orders (N Amer)	10/15	103.3	98.3
Rigid & Flex PCB Shipments (N Amer)	10/15	100.4	102.1
Electronic Component Orders	10/15	120.8	126.4
Electronic Component Shipments	10/15	119.8	126.4
Semiconductor Shipments to N America	10/15	105.4	94.4
U.S. Electronic Equipment Orders \$			
Computer & Related	10/15	87.5	94.5
Communication	10/15	100.8	101.0
Medical, Measurement & Control	10/15	107.5	105.3
Search & Navigation	10/15	106.3	95.5
Defense Capital Goods	10/15	94.2	105.6
Military Electronics	10/15	104.7	91.2
Total Electronic Equipment	10/15	103.3	101.1
U.S. Industrial Production	10/15	102.3	100.8

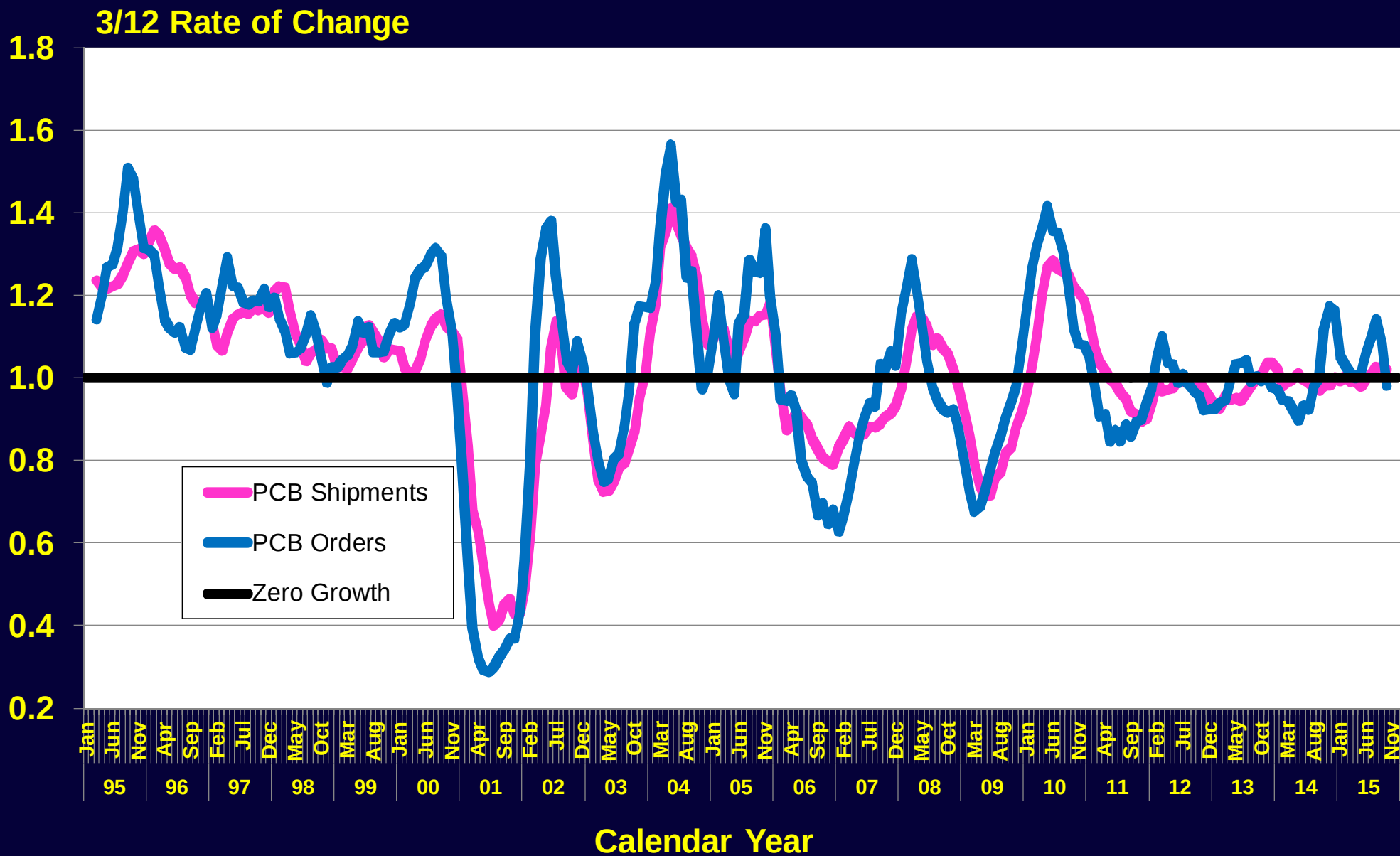
NOTE: 3 month growth rates compare most recent 3 months to same 3 months one year earlier

Rigid & Flexible PCB Book/Bill

N. America



N. America Rigid & Flexible PCB Orders & Shipments

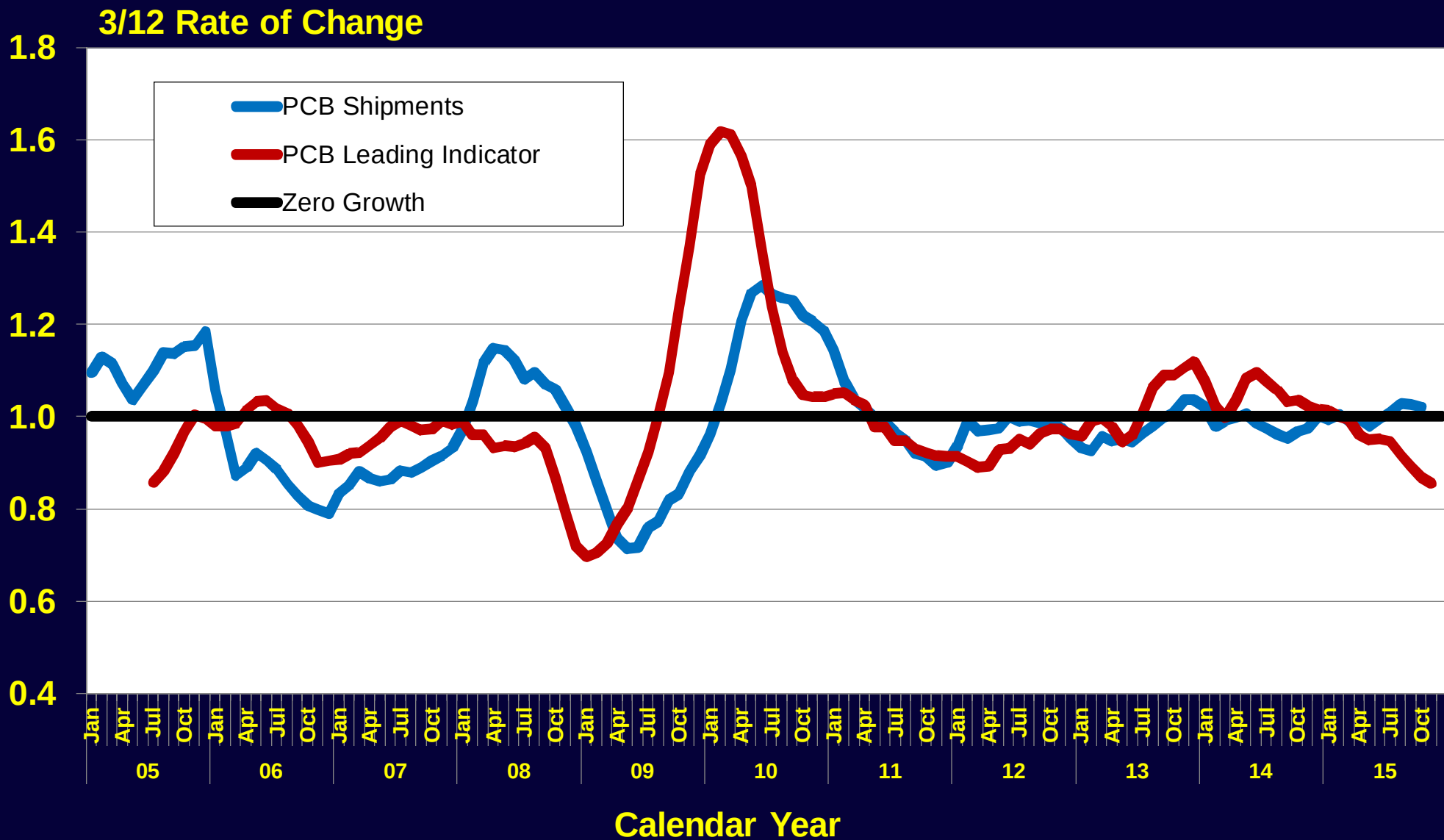


Data: IPC T/MRC & <http://www.census.gov/indicator/www/m3/>

**2014/2013 Rigid & Flex
PCB Shipment Growth:
-0.8%**

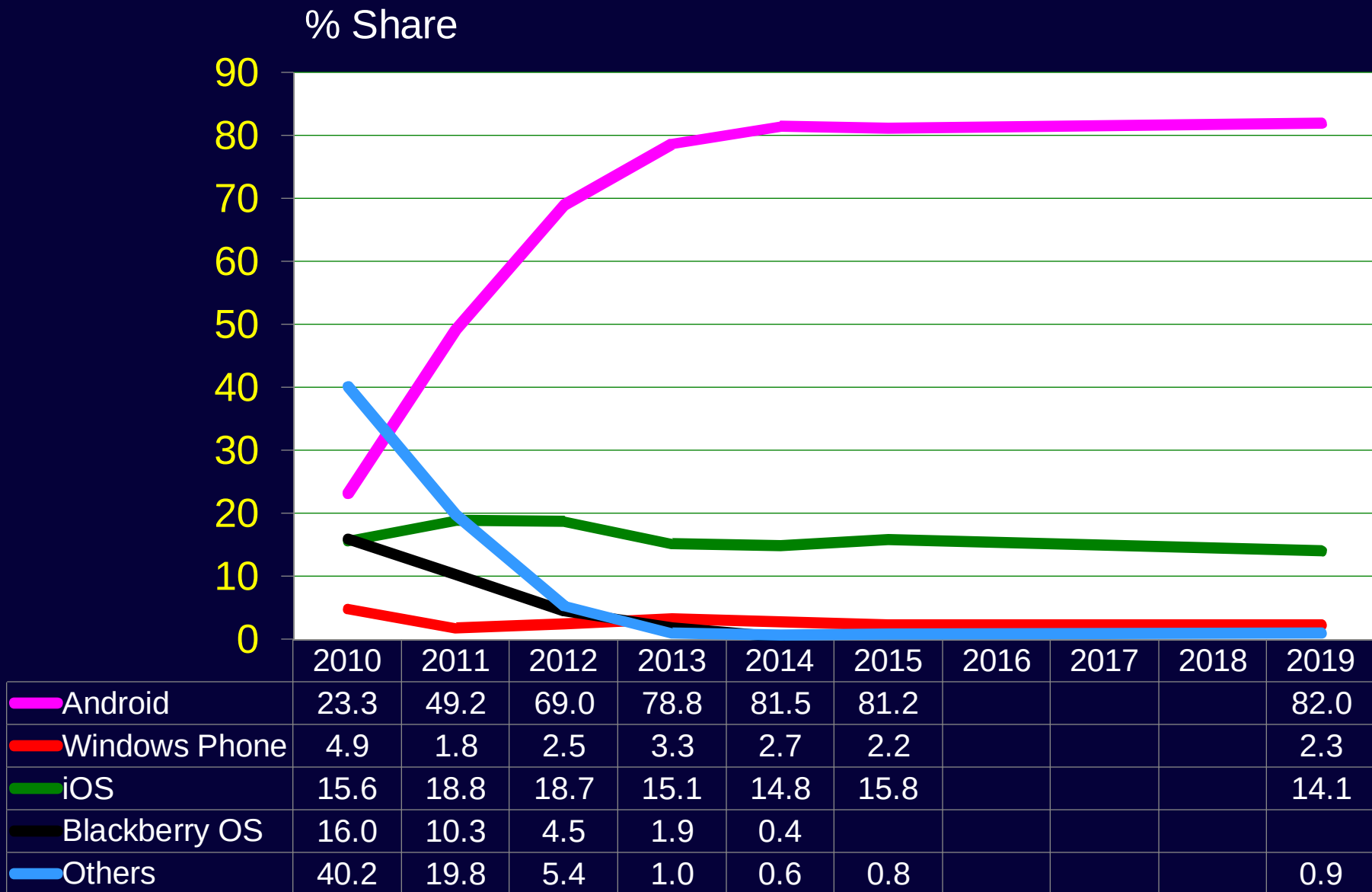
IPC

N America CCG PCB Leading Indicator vs. N America Rigid & Flex PCB Shipments

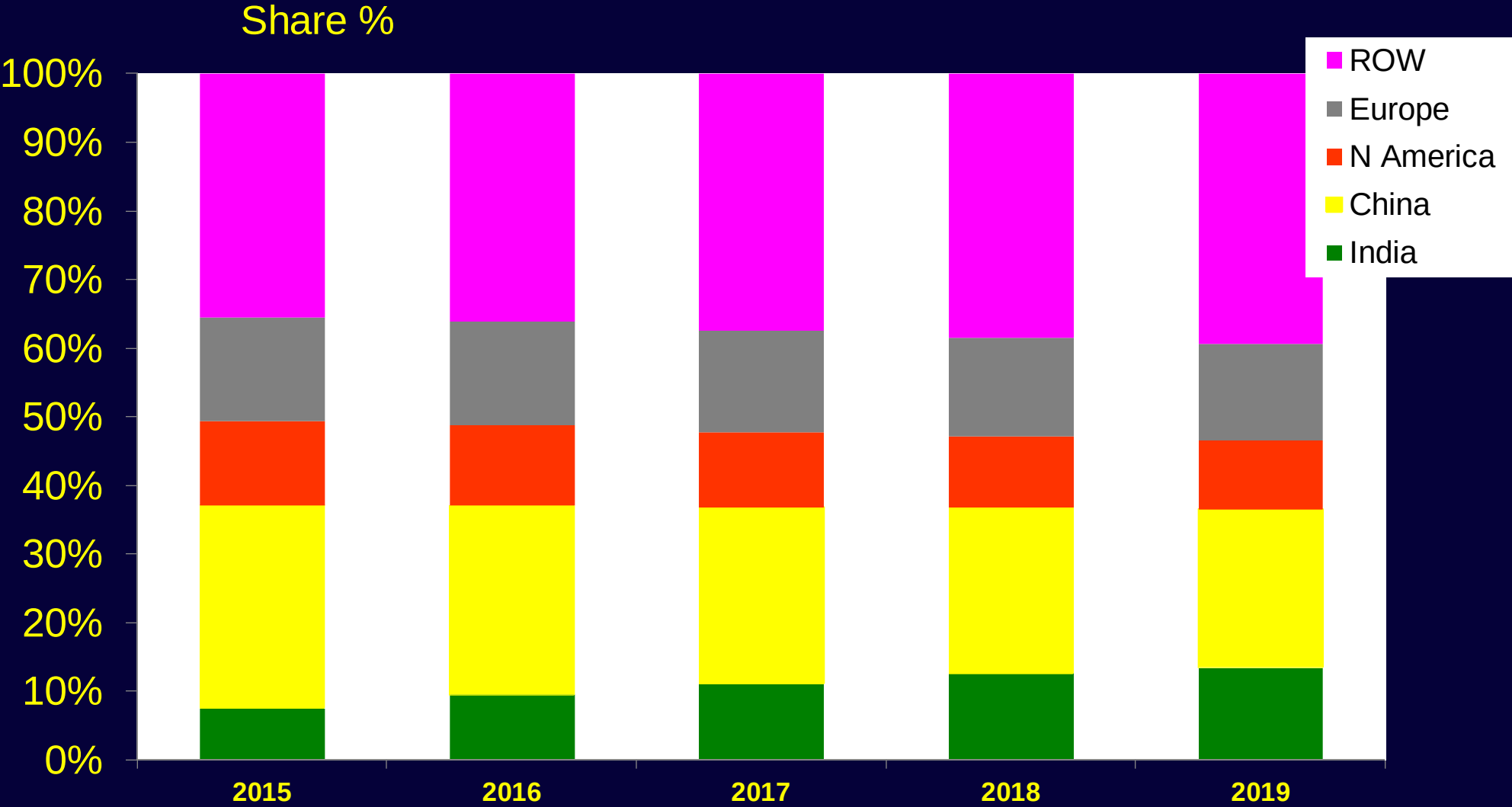


Source: Custer Consulting Group

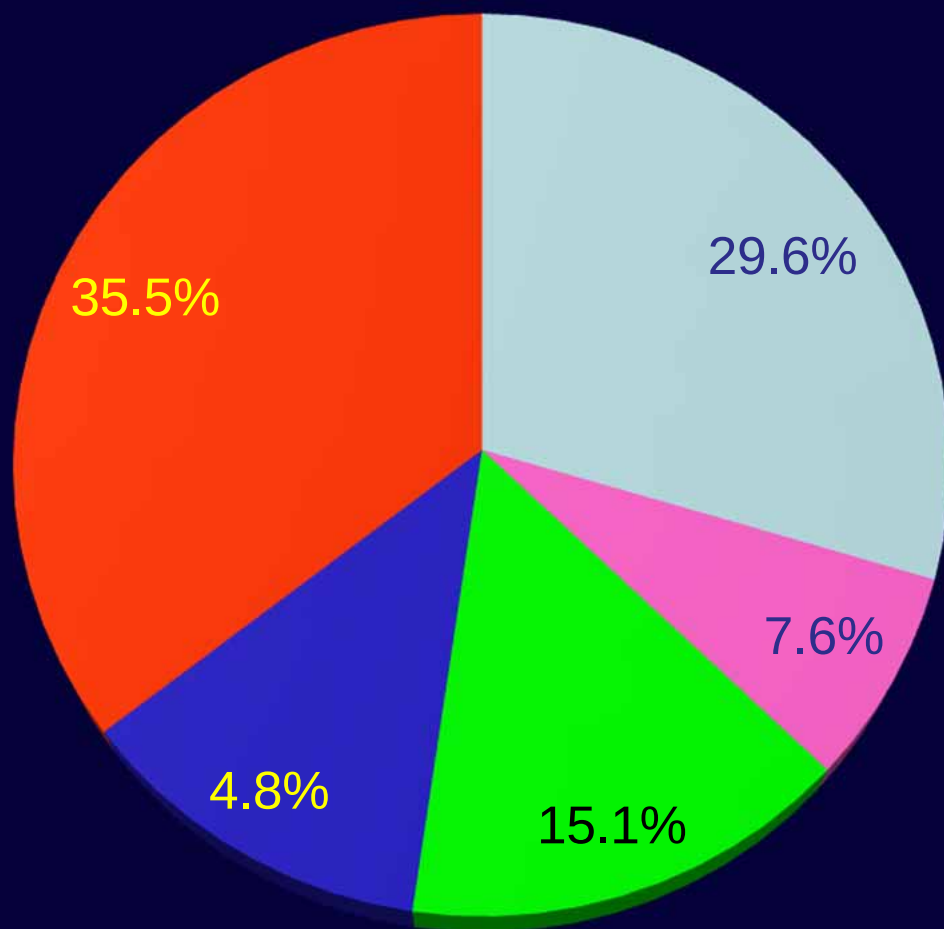
World Smartphone Market



Smartphone Shipments by Region

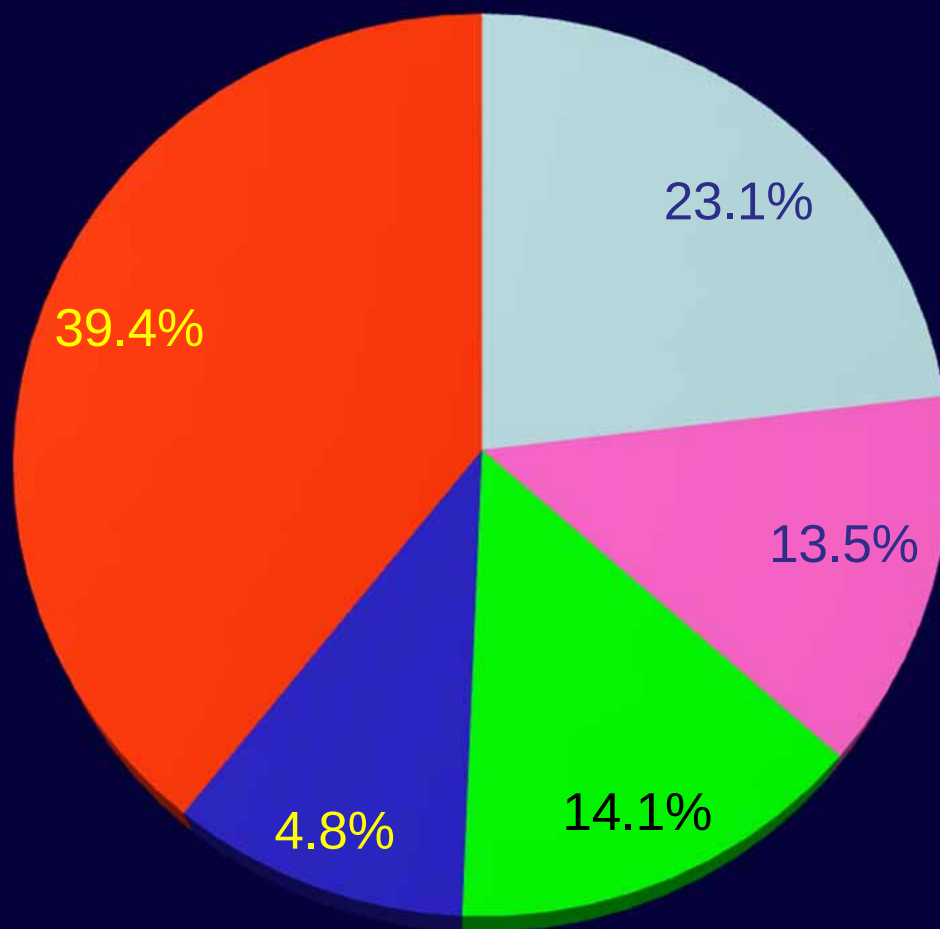


World Smartphone Sales 2015 by Region



TOTAL: 1430 Million Units

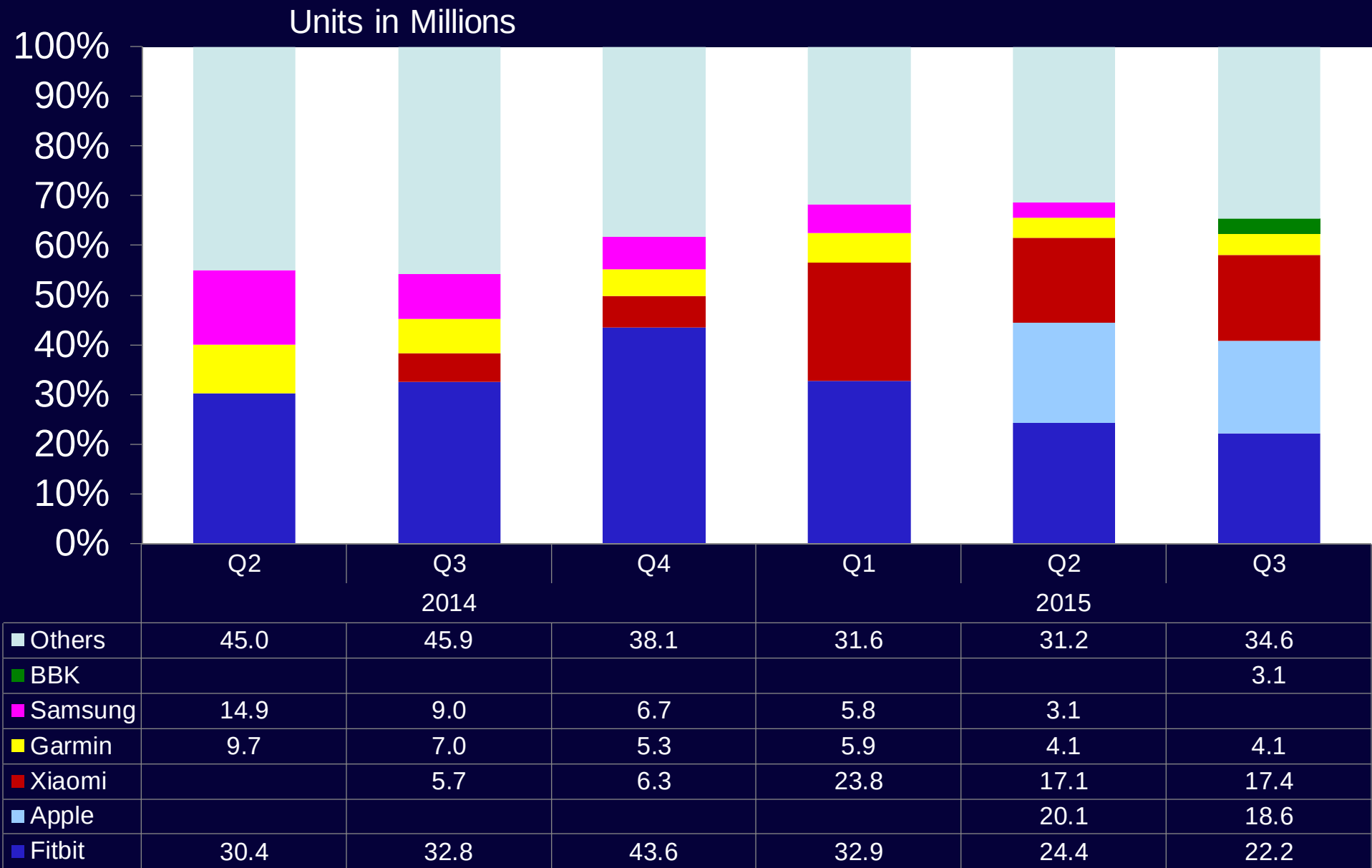
World Smartphone Sales 2019 by Region



TOTAL: 1862 Million Units

Wearable Vendors

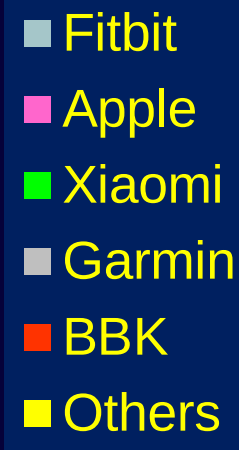
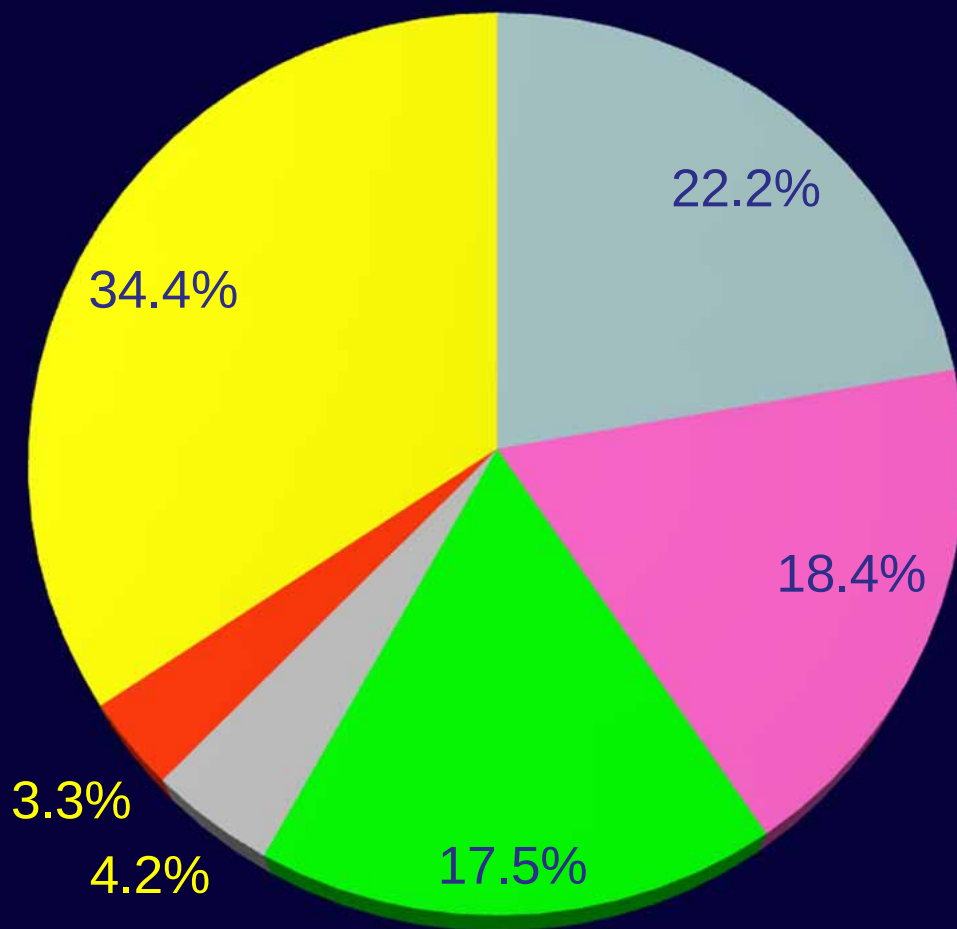
Global % Share of Largest Suppliers



Wearables Vendors

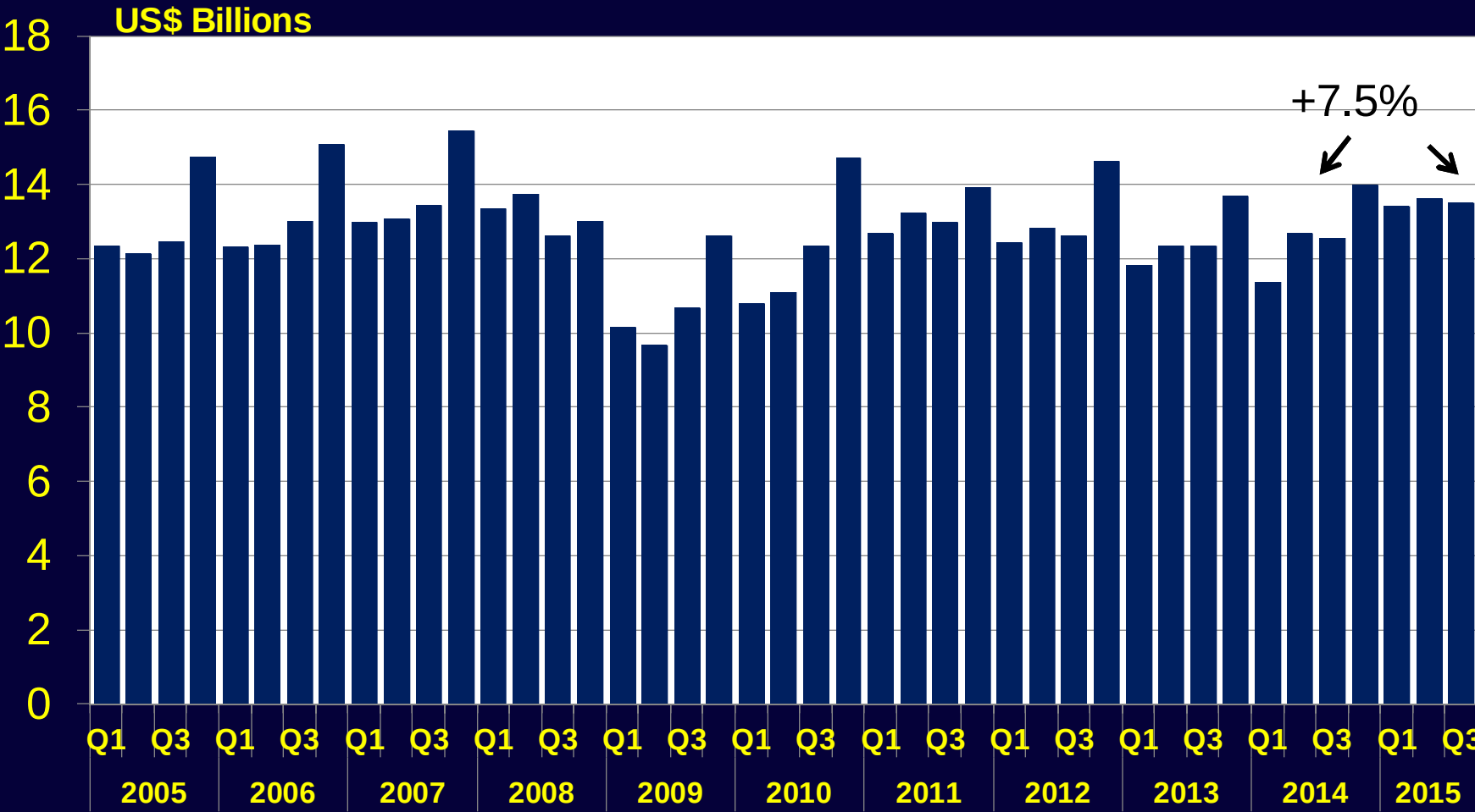
3Q'15

Units



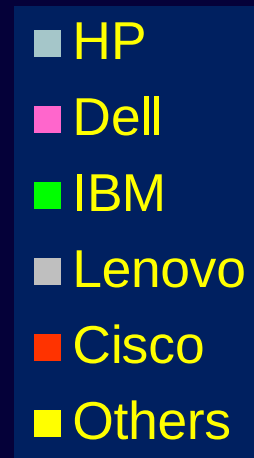
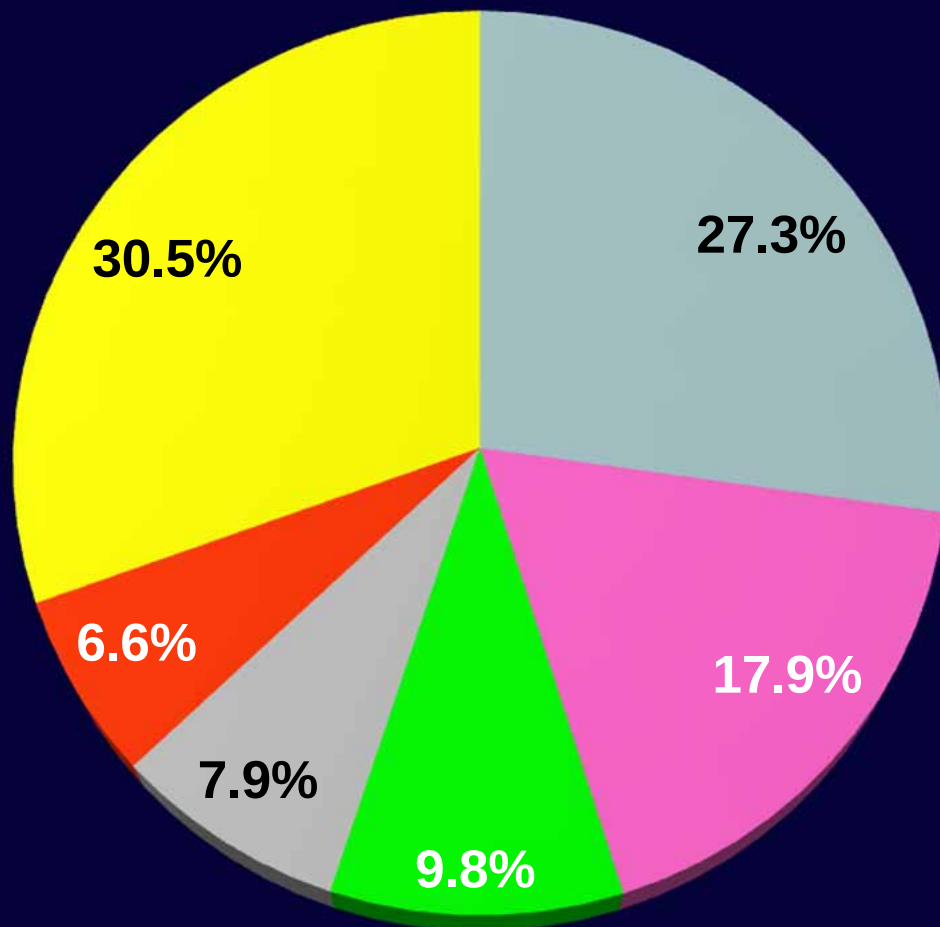
3Q'15 Total: 21.0 Million Wearables

World Server Shipment Revenue



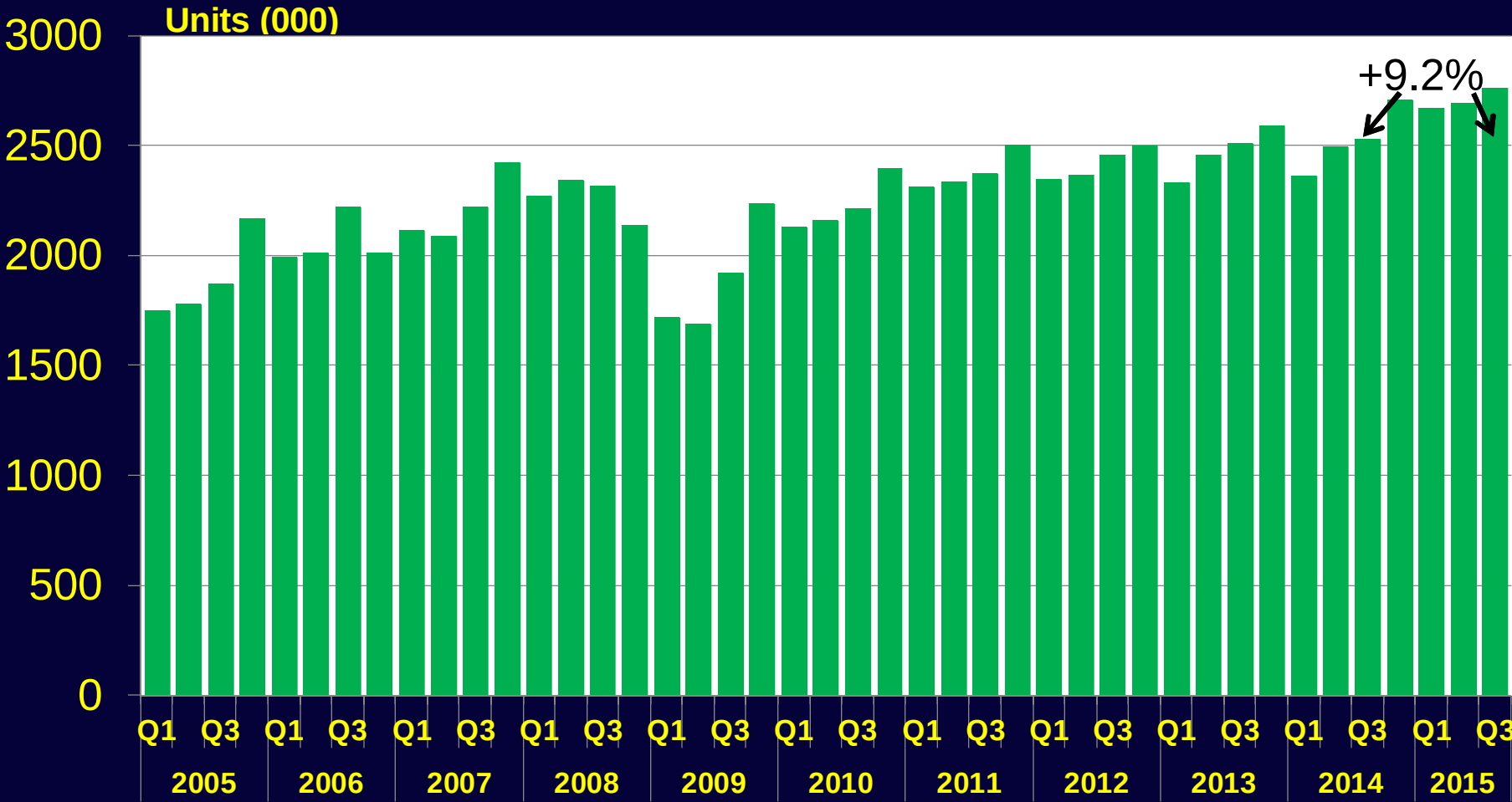
Gartner 12/15 & prior reports

World Server Shipments 3Q'15



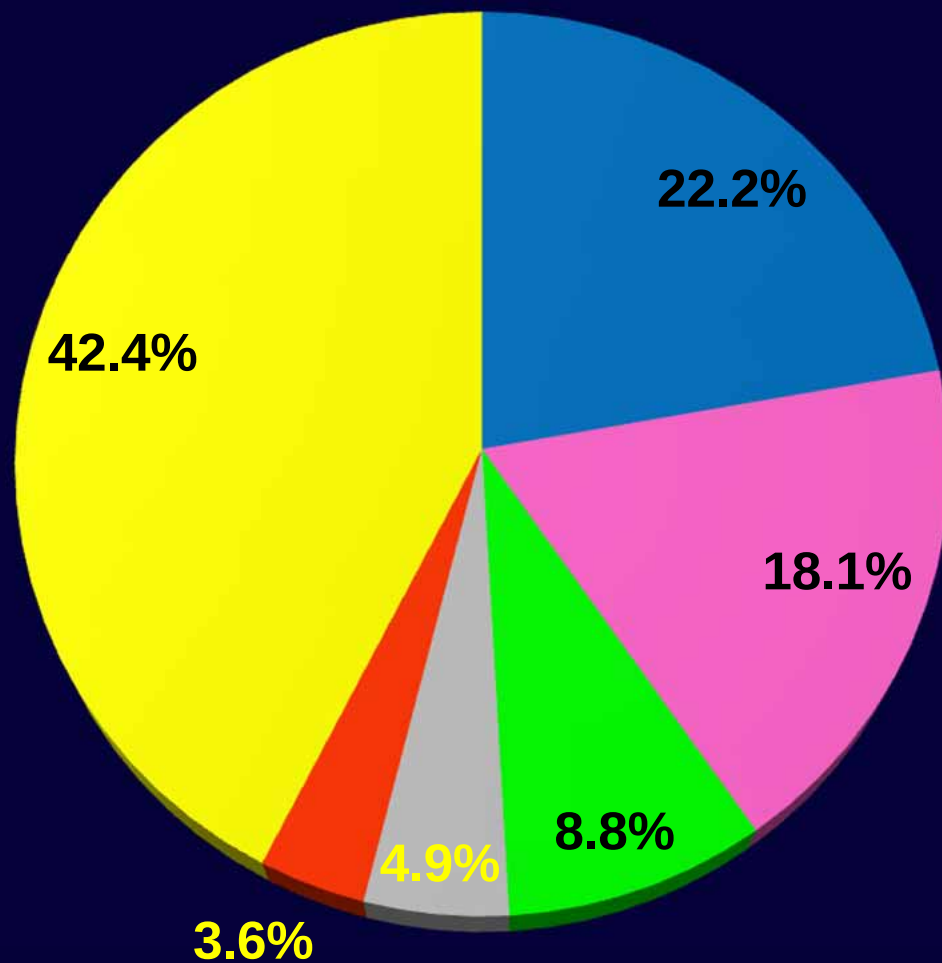
TOTAL: \$13.5 Billion

World Server Shipment Units



Gartner 12/15 & prior reports

World Server Shipments 3Q'15



TOTAL: 2.76 Million Units