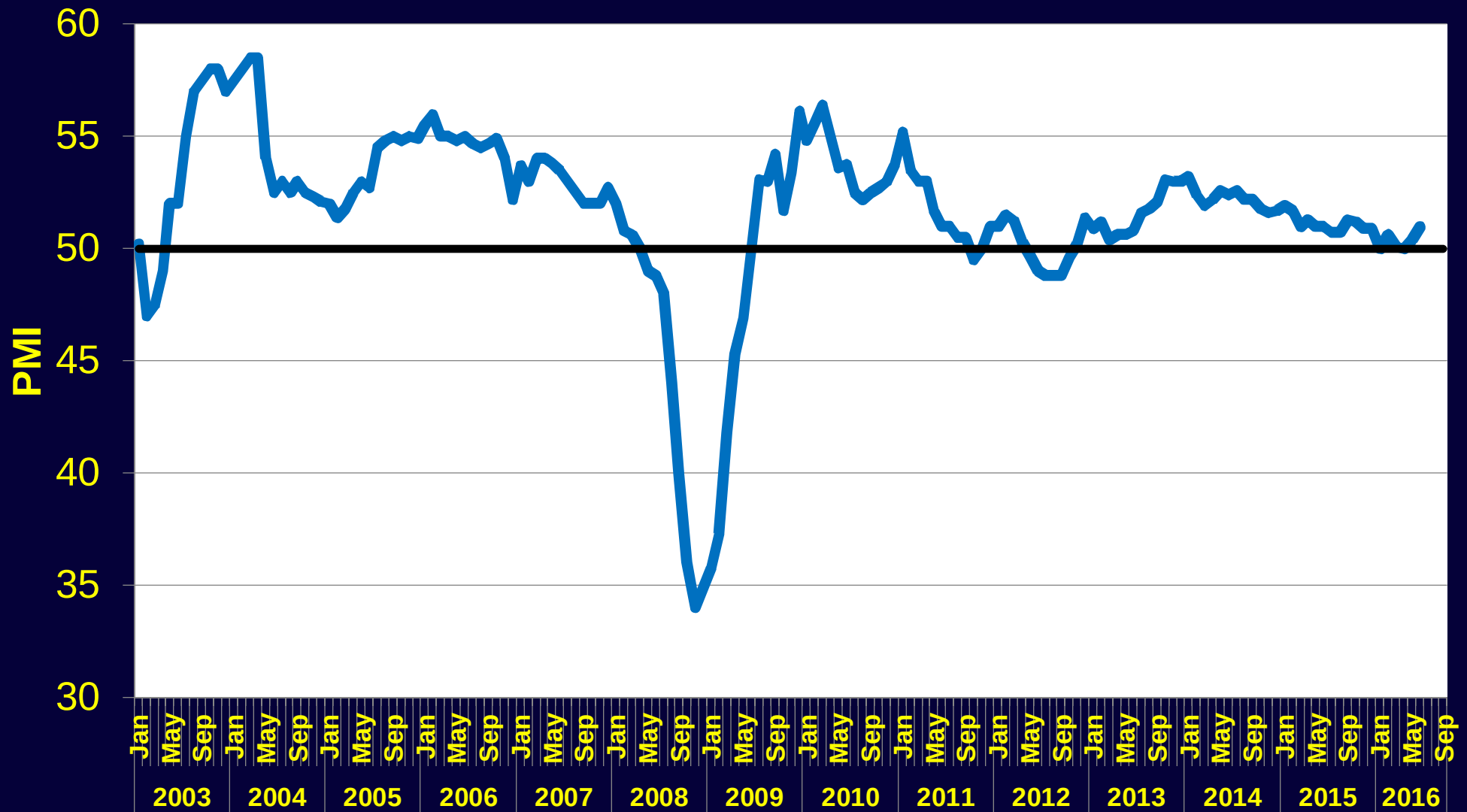
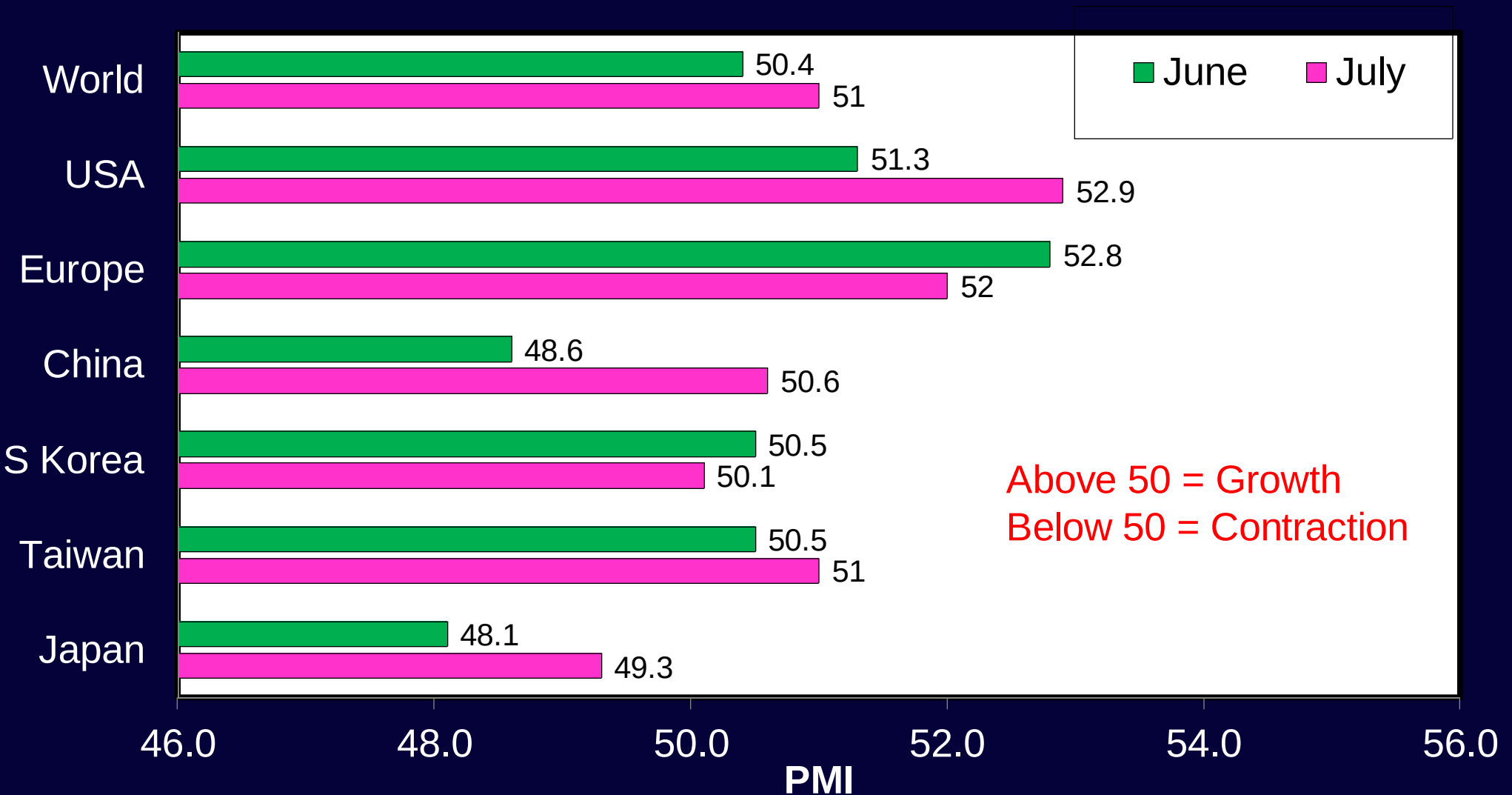


Global "Purchasing Managers" Index

Diffusion Index, >50 = Growth



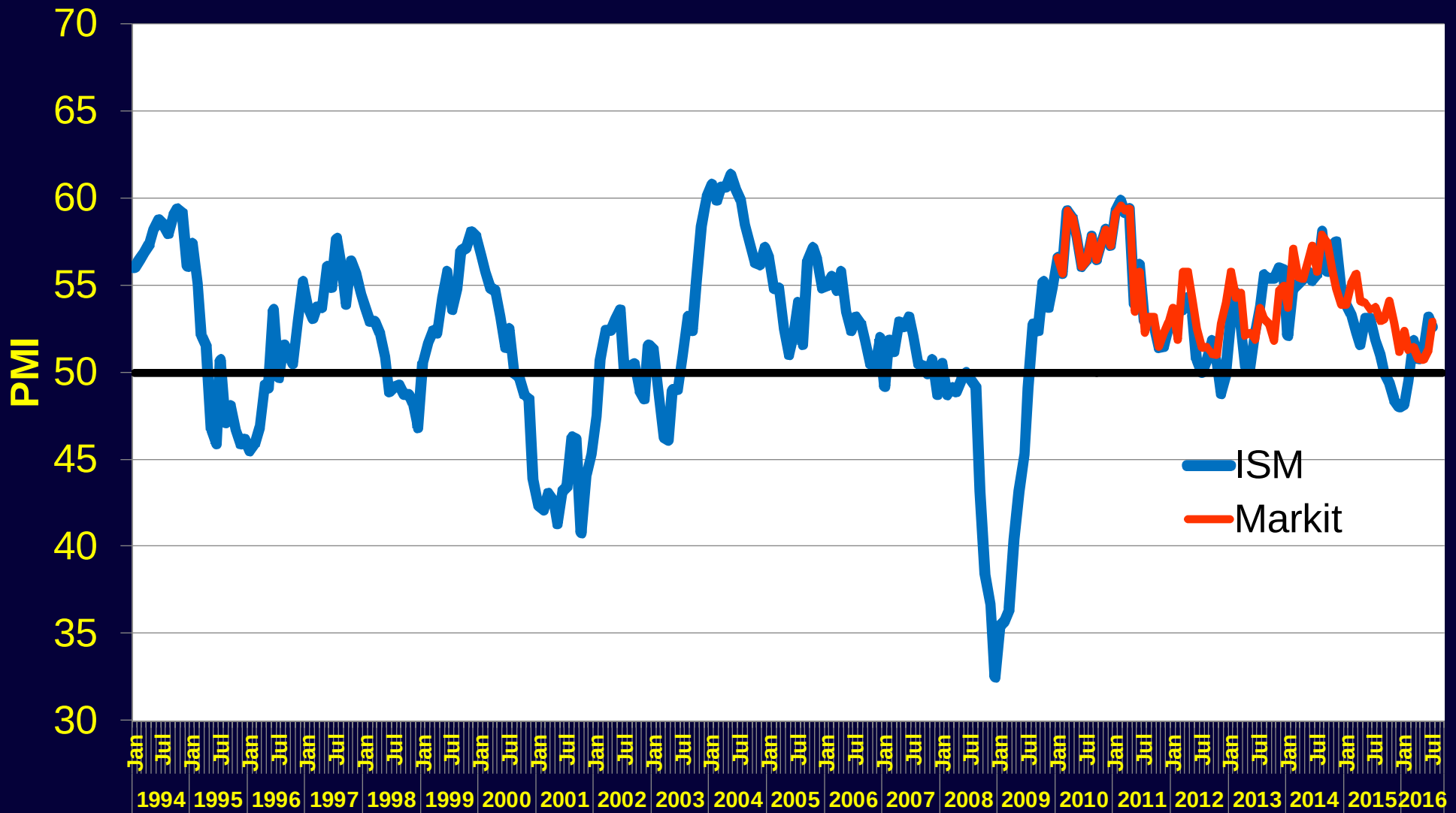
Purchasing Managers' Indices June vs. July 2016



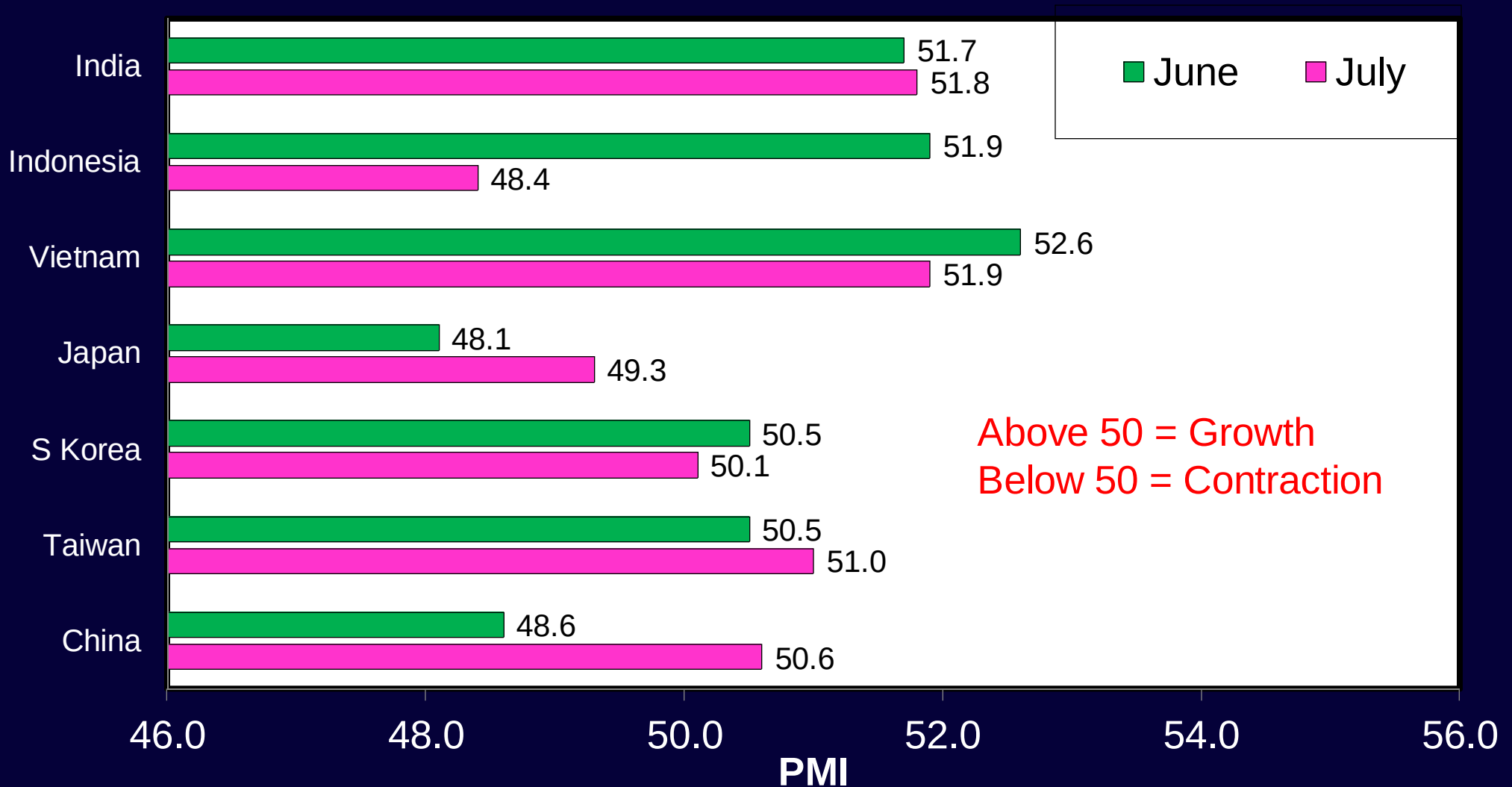
U.S "Purchasing Managers" Indices

ISM vs. Markit Economics

Diffusion Index, >50 = Growth

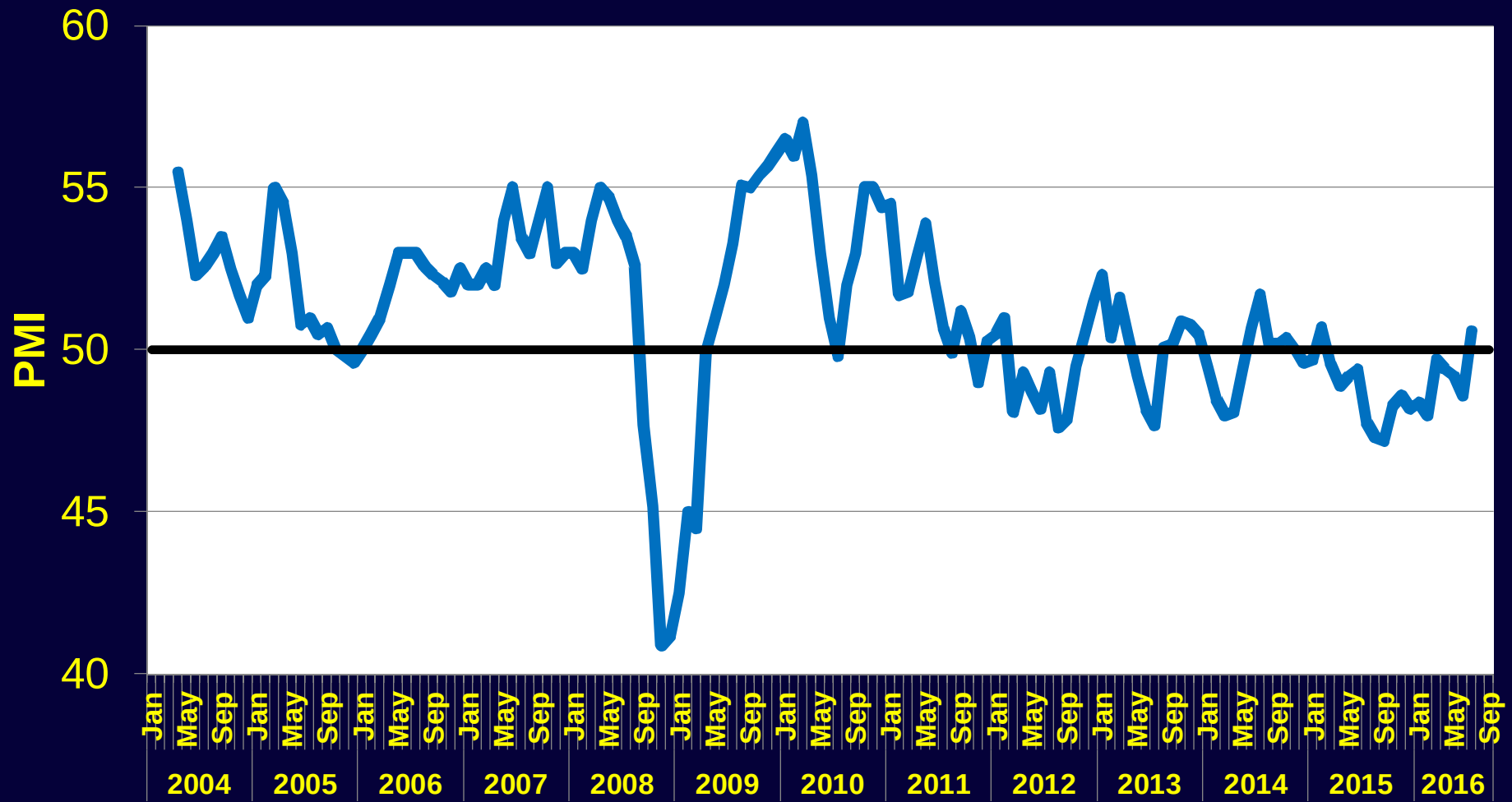


Asian Purchasing Managers' Indices June vs. July 2016



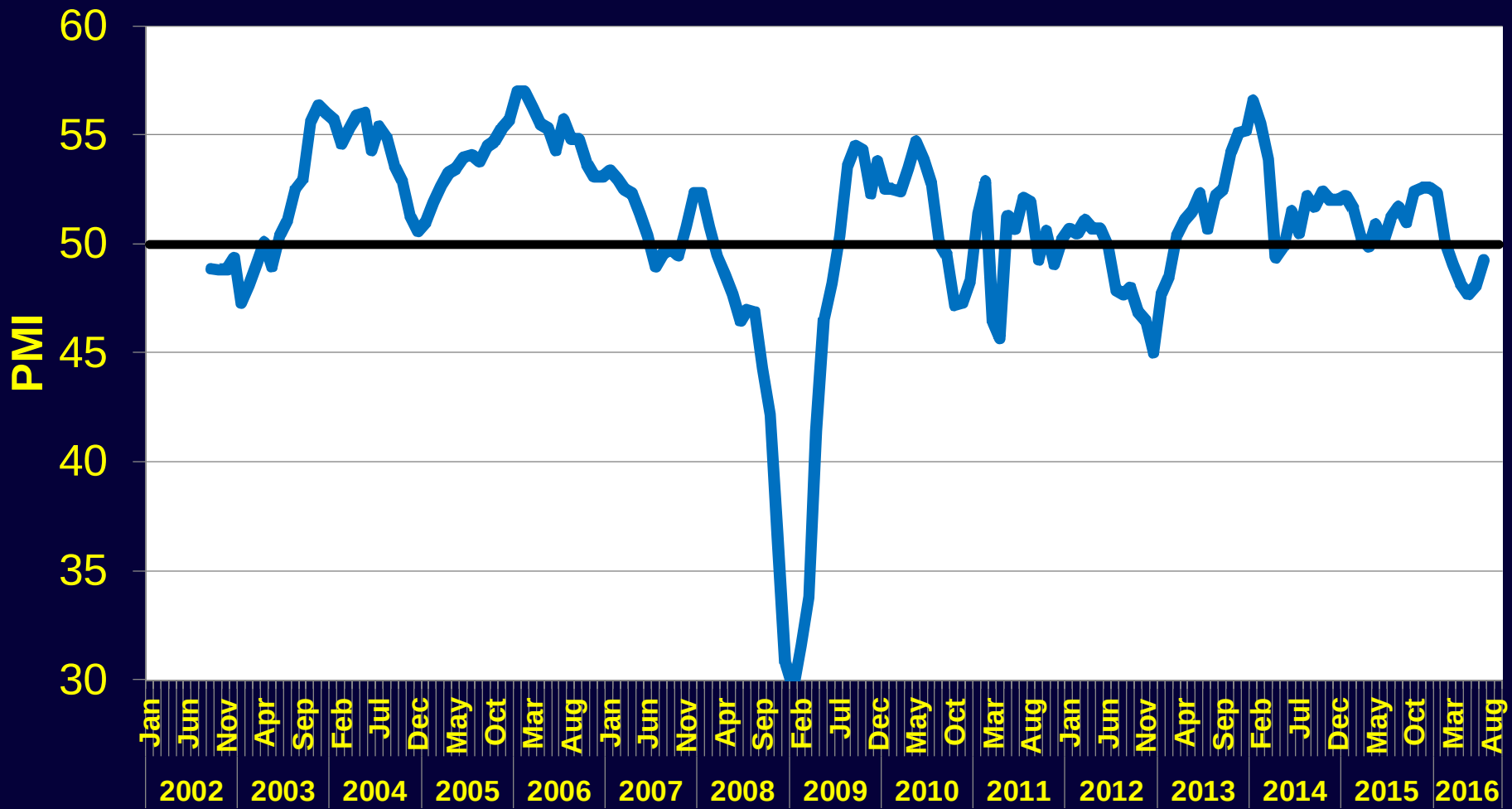
China "Purchasing Managers" Index

Diffusion Index, >50 = Growth



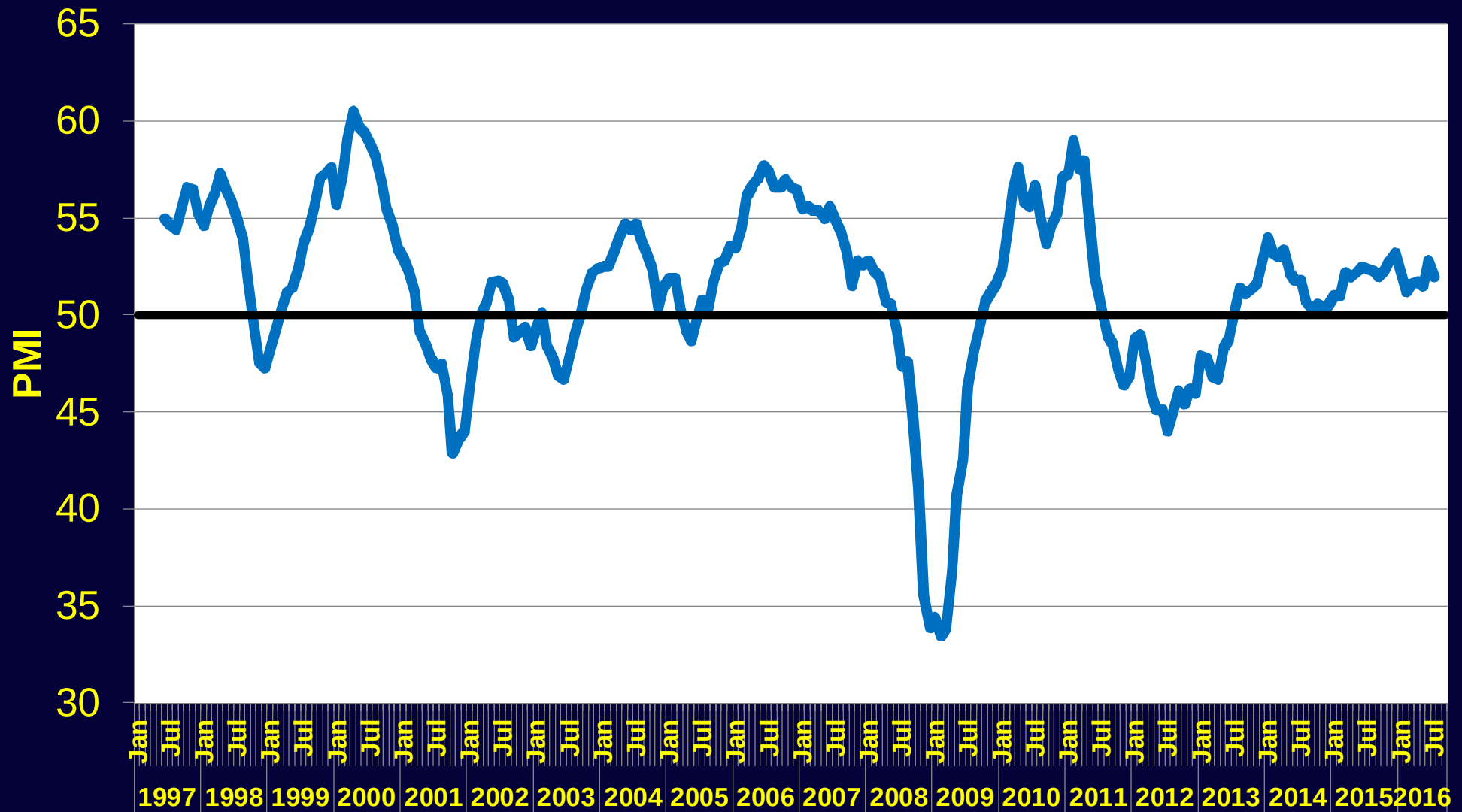
Japan "Purchasing Managers" Index

Diffusion Index, >50 = Growth



Eurozone "Purchasing Managers" Index

Diffusion Index, >50 = Growth



European Purchasing Managers' Indices June vs. July 2016



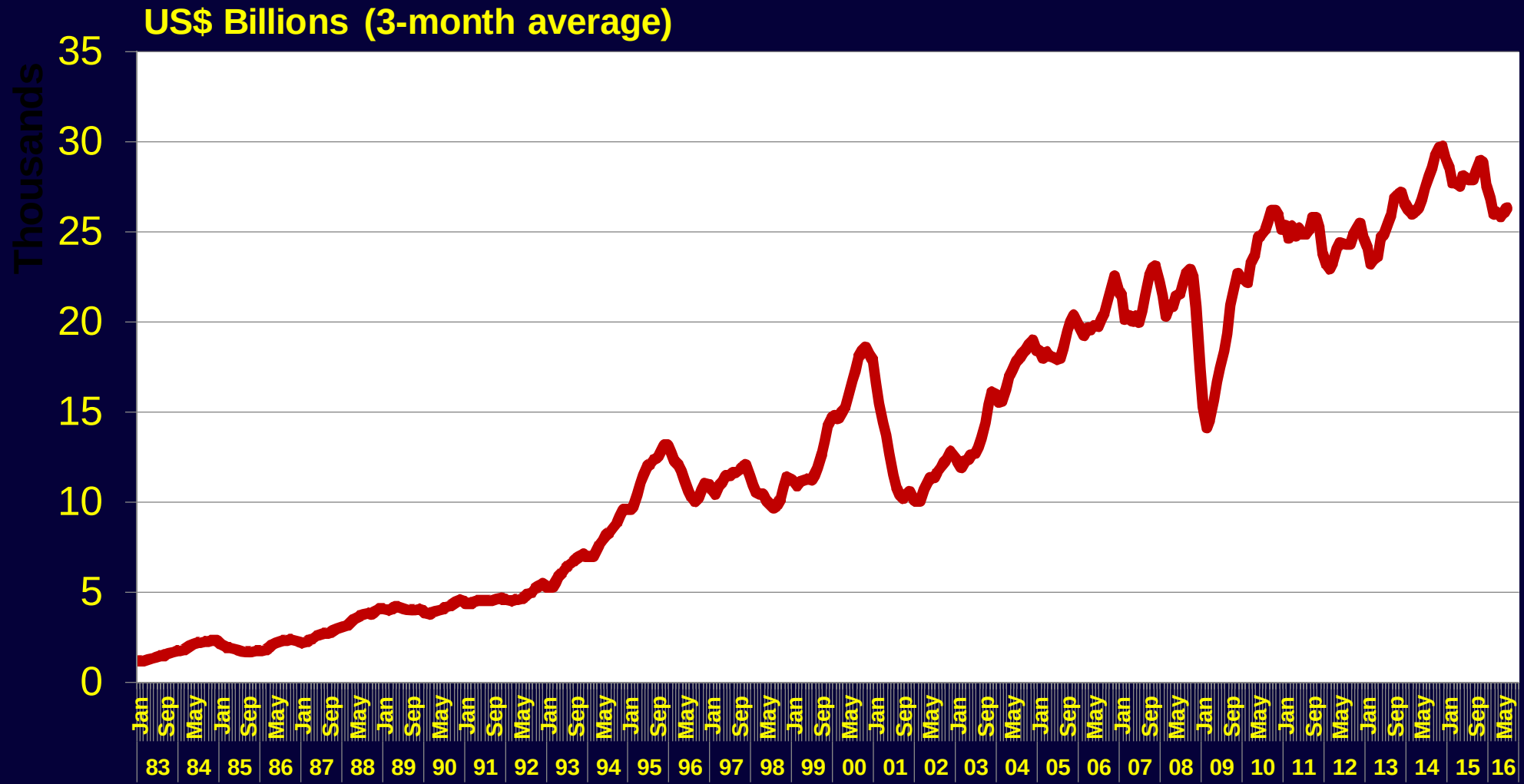
Monthly Semiconductor Shipments

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

	<u>6/15</u>	<u>6/16</u>	<u>% CH</u>
Americas	5.53	4.93	- 10.8%
Europe	2.83	2.67	- 5.5%
Japan	2.57	2.53	- 1.3%
China	8.13	8.27	+ 1.7%
Asia Pacific / All Other	8.94	7.95	- 11.0%
Total	27.99	26.36	- 5.8%

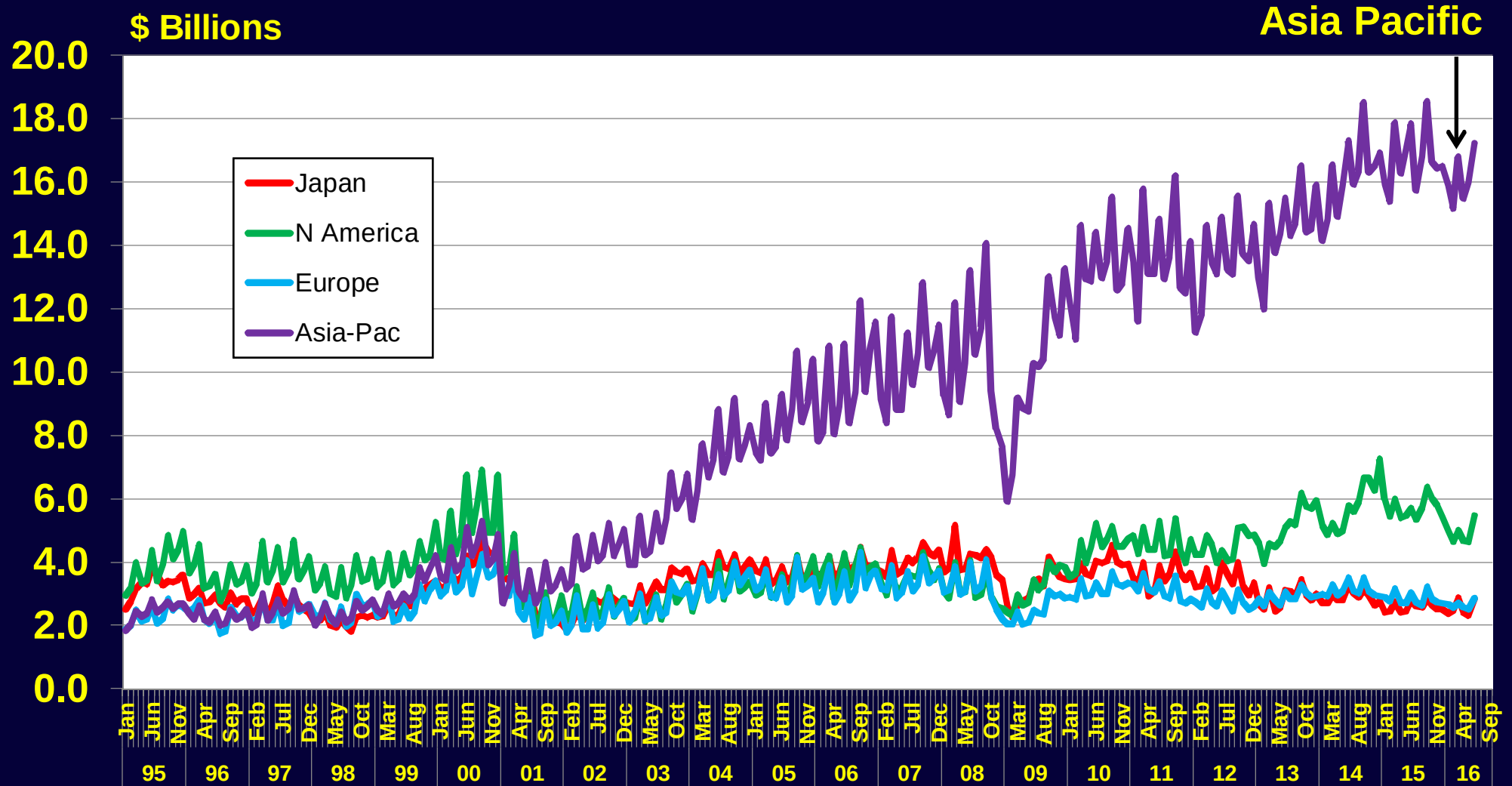
World Semiconductor Shipments

Monthly US\$



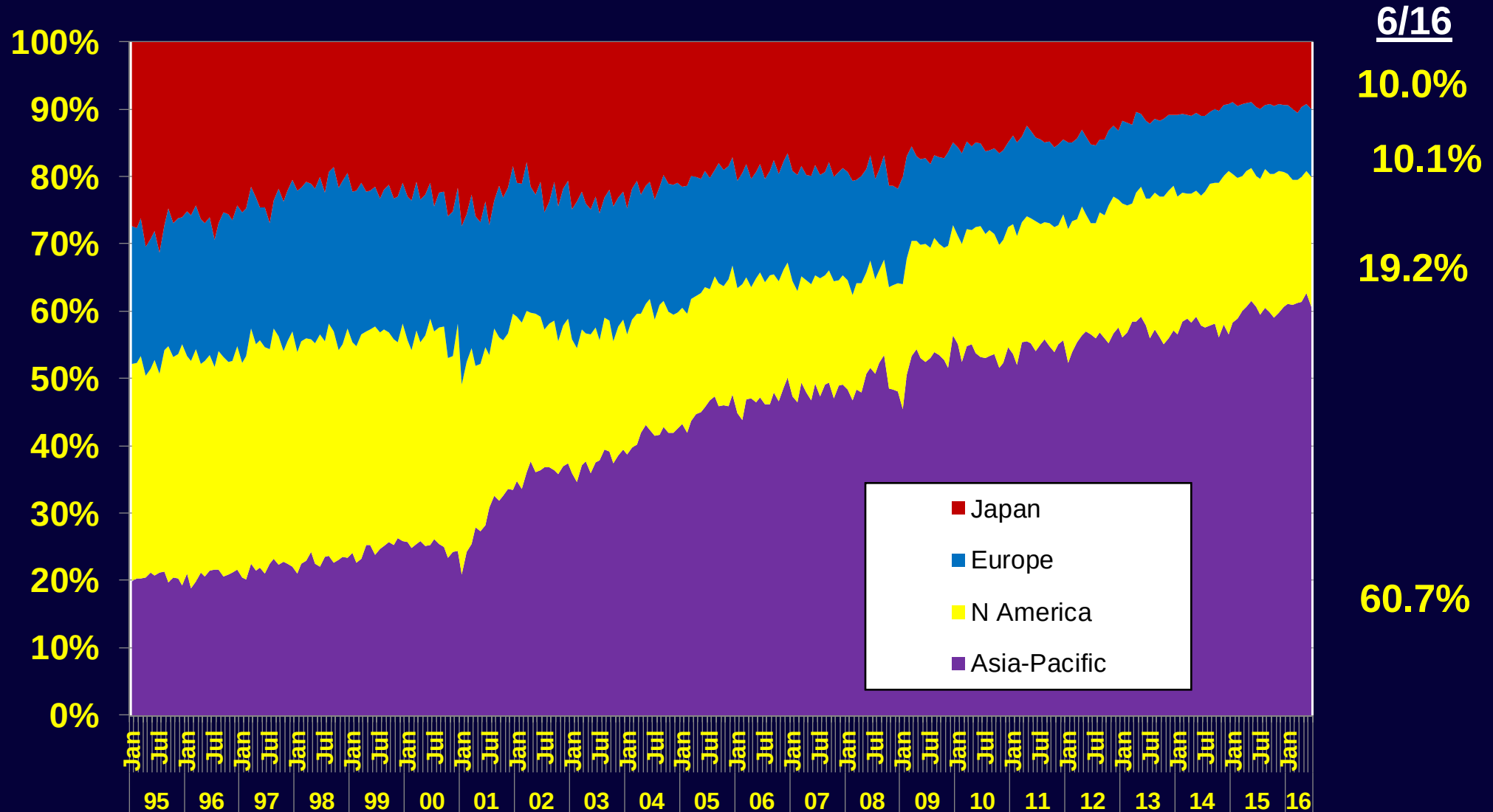
Total Semiconductor Shipments to an Area

Monthly Shipments - Reporting Firms



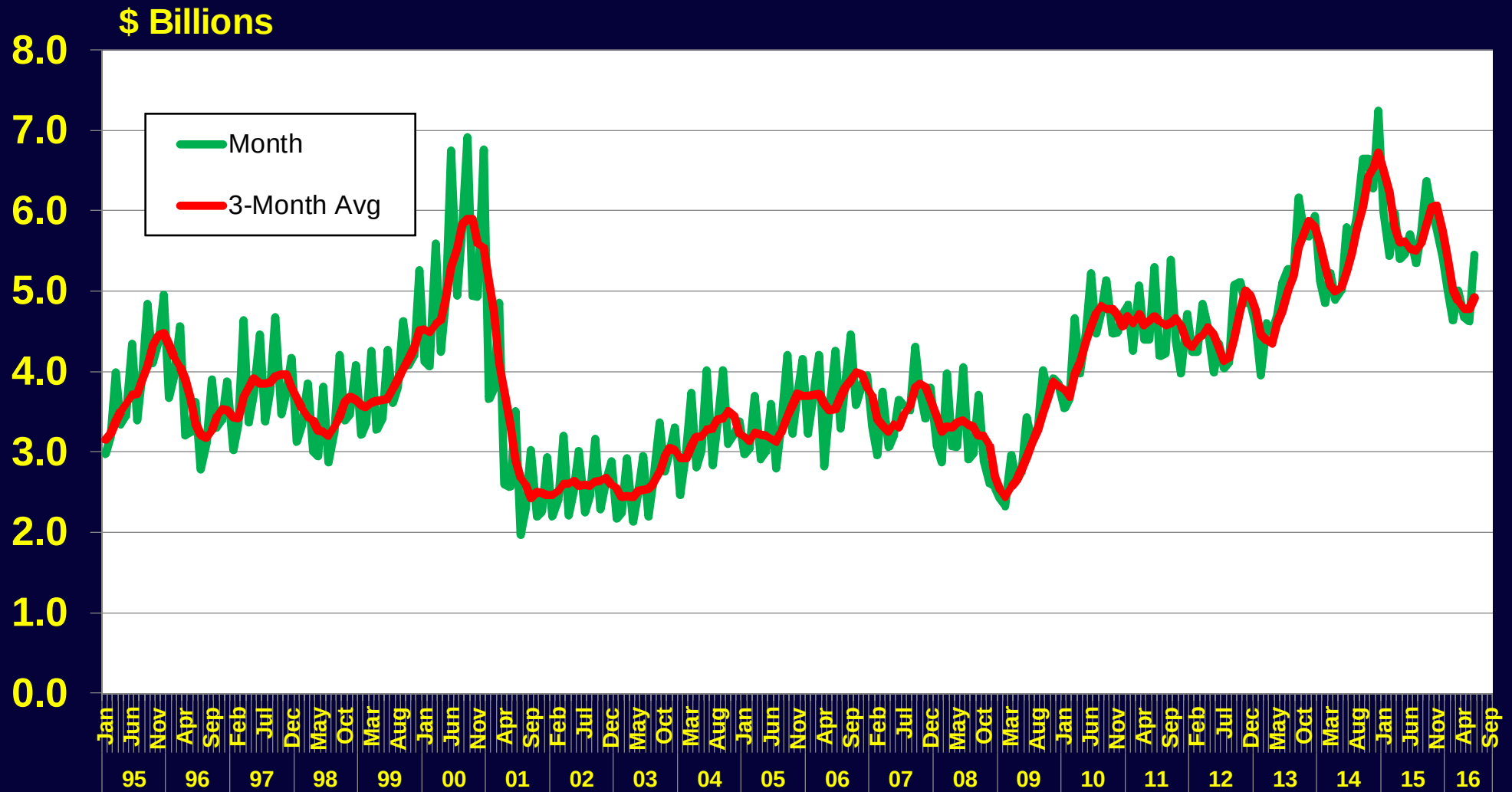
Total Semiconductor Shipments to an Area

Monthly Shipments - Reporting Firms



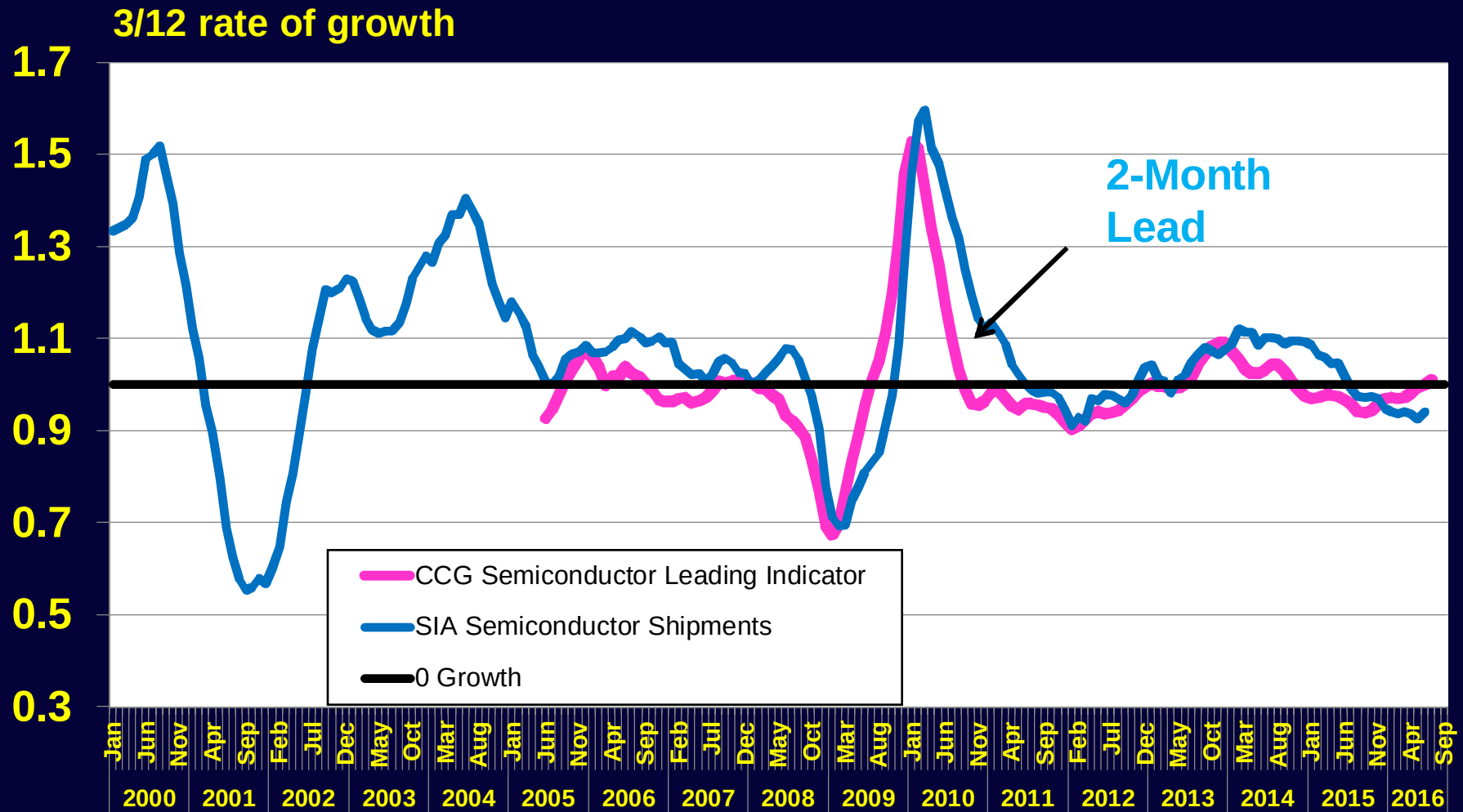
N American Semiconductor Shipments

Monthly & 3-Month Average Shipments

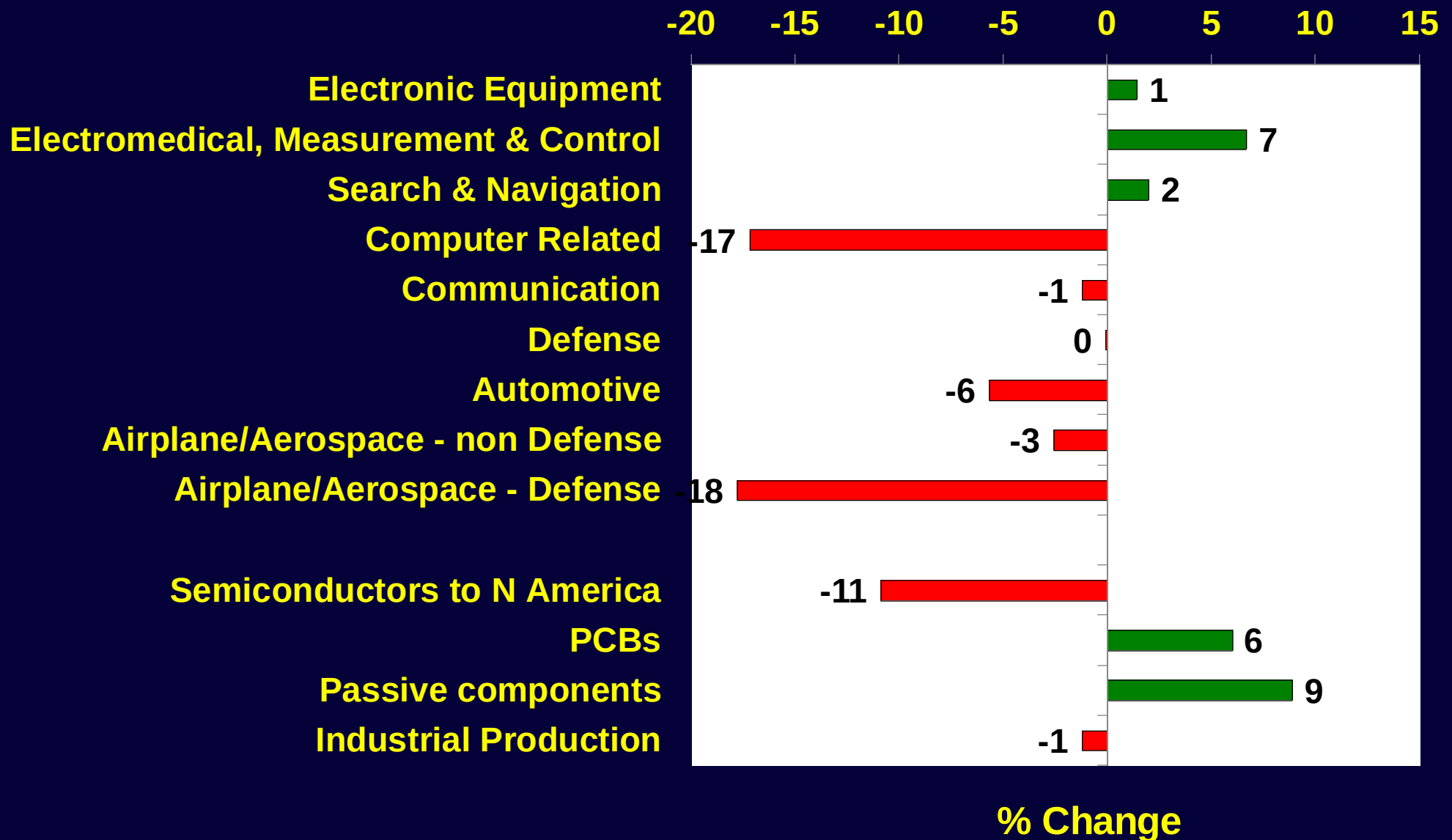


SIA website: www.sia-online.org/

CCG Semiconductor Leading Indicator vs. Global Semiconductor Shipments



U.S Electronic Supply Chain Shipment Growth 2Q'16 vs. 2Q'15



Present Growth Rates (%)

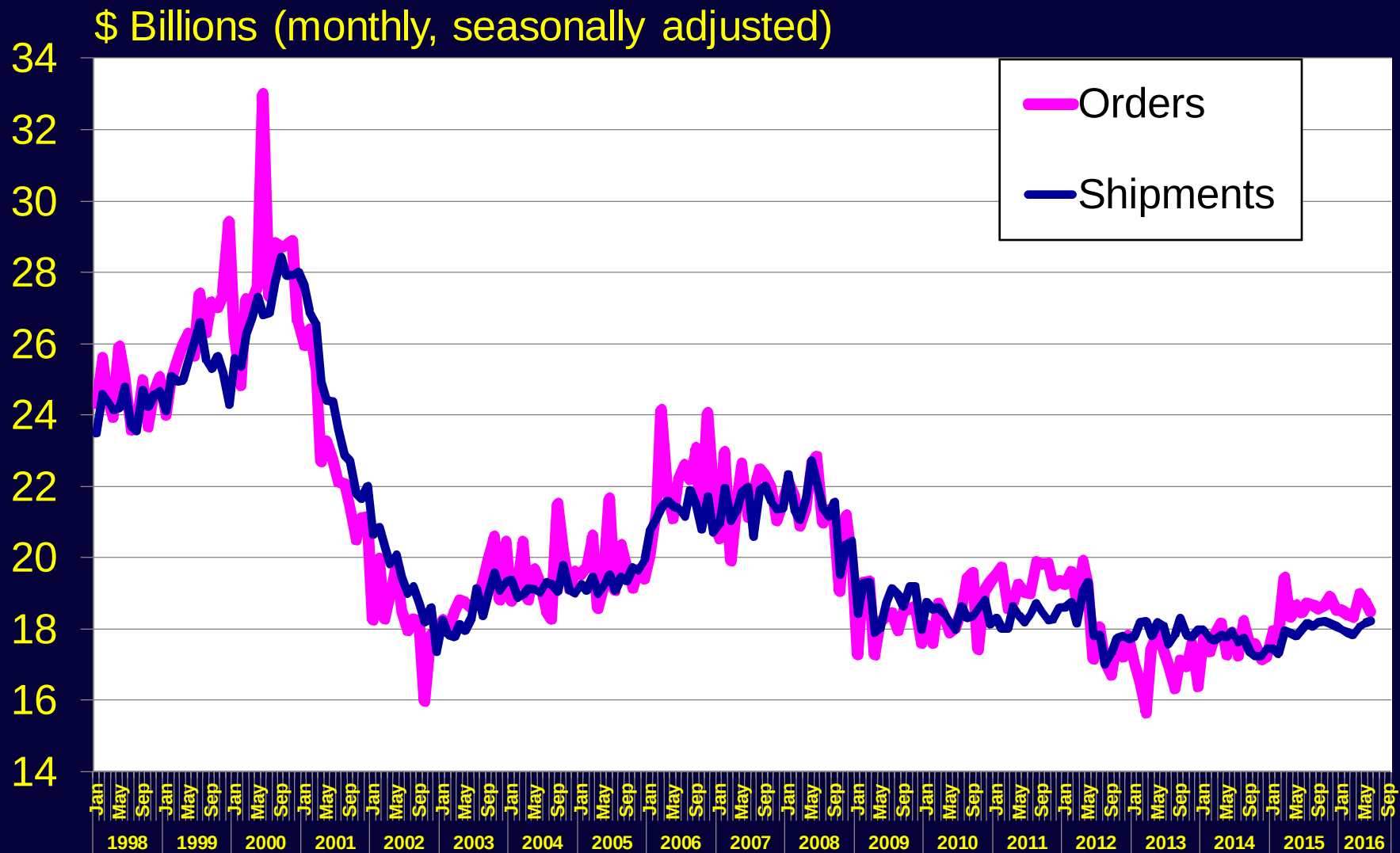
U.S. Economy & Electronics Industry

	Latest Month	Annual Growth	3-Month Growth
Electronic Component \$			
Rigid & Flex PCB Orders (N Amer)	6/16	100.5	94.9
Rigid & Flex PCB Shipments (N Amer)	6/16	103.6	106.0
Electronic Component Orders	6/16	120.3	106.9
Electronic Component Shipments	6/16	120.7	108.9
Semiconductor Shipments to N America	6/16	88.7	89.1
U.S. Electronic Equipment Orders \$			
Computer & Related	6/16	88.6	81.8
Communication	6/16	108.3	98.8
Medical, Measurement & Control	6/16	104.1	105.7
Search & Navigation	6/16	107.5	105.9
Defense Capital Goods	6/16	120.2	115.6
Military Electronics	6/16	108.5	111.3
Total Electronic Equipment	6/16	103.7	101.5
U.S. Industrial Production	6/16	98.9	98.8

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

U.S. Electronic Equipment Orders & Shipments

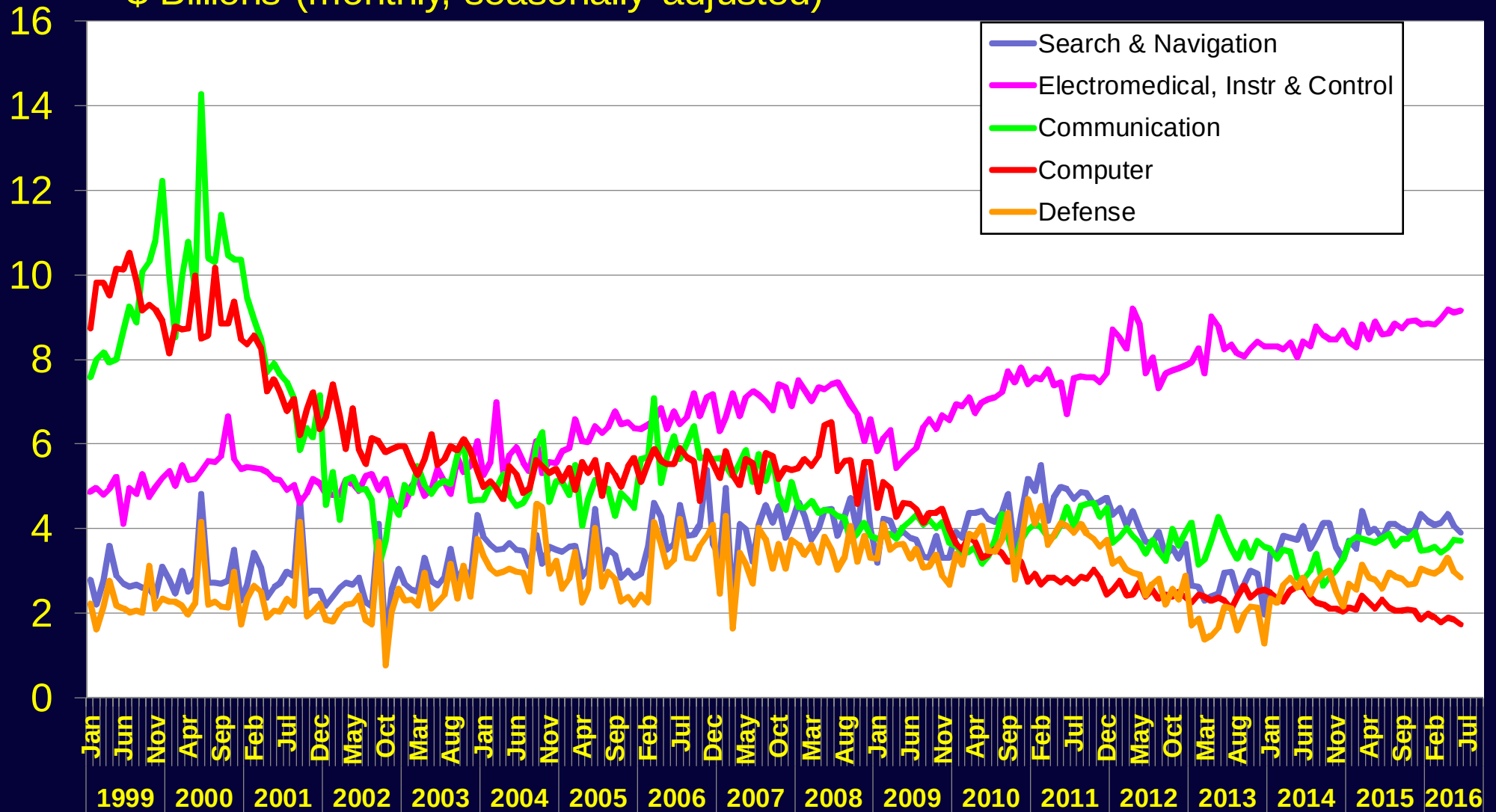
Computer, Communications, Measurement & Control and Military



U.S. Electronic Equipment Orders

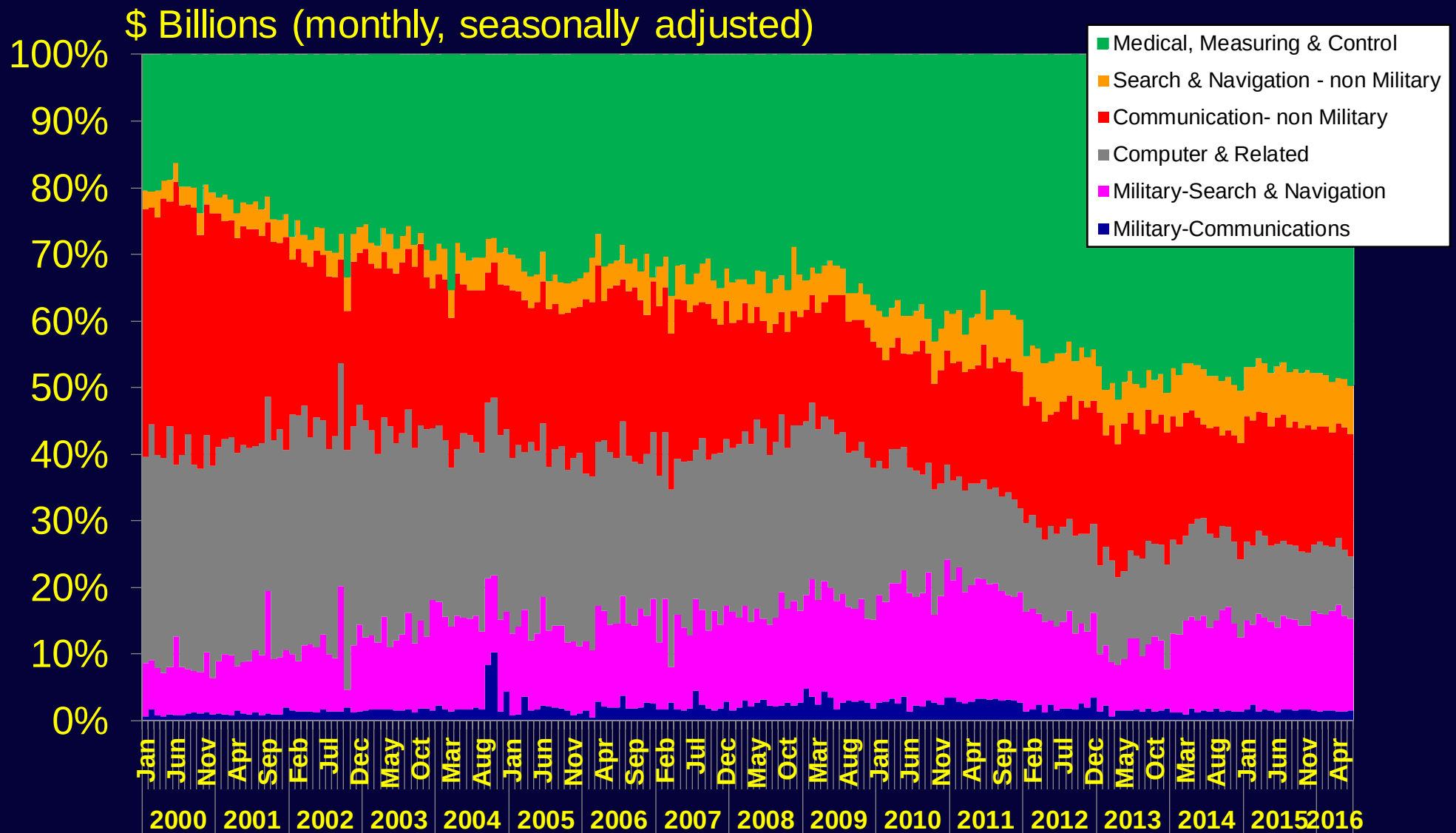
Monthly Data

\$ Billions (monthly, seasonally adjusted)



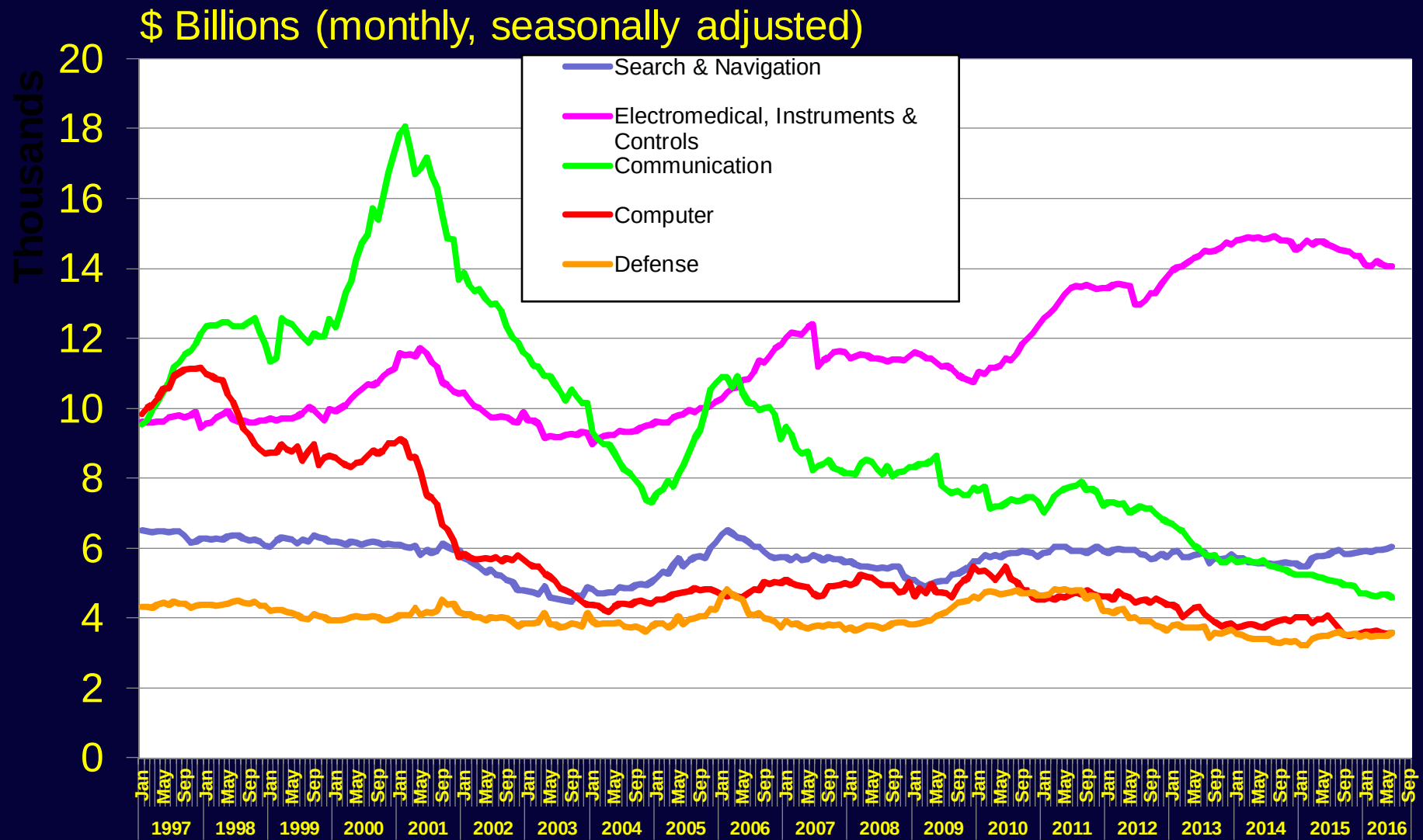
U.S. Electronic Equipment Orders

Monthly Data

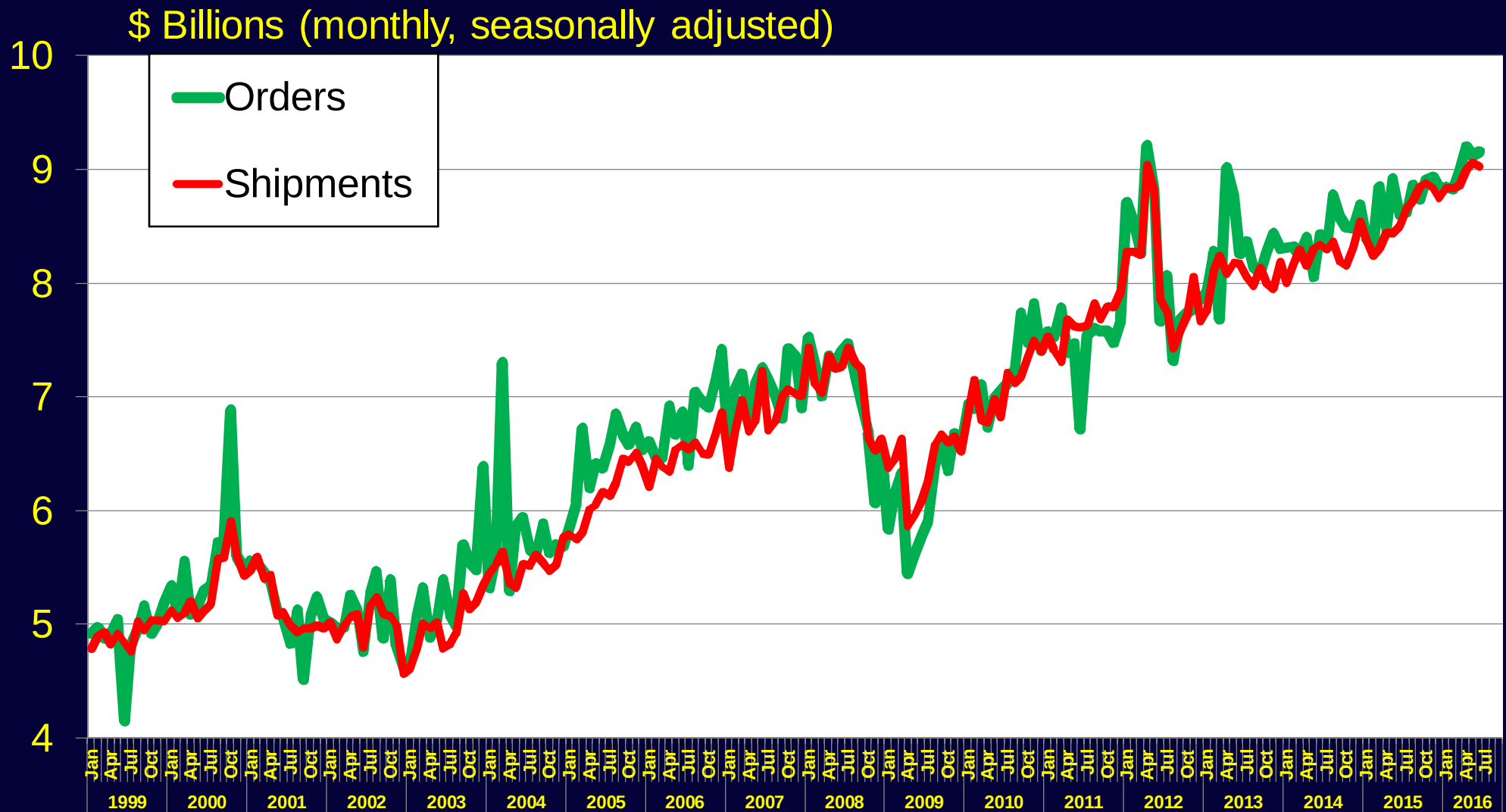


U.S. Electronic Equipment Inventories

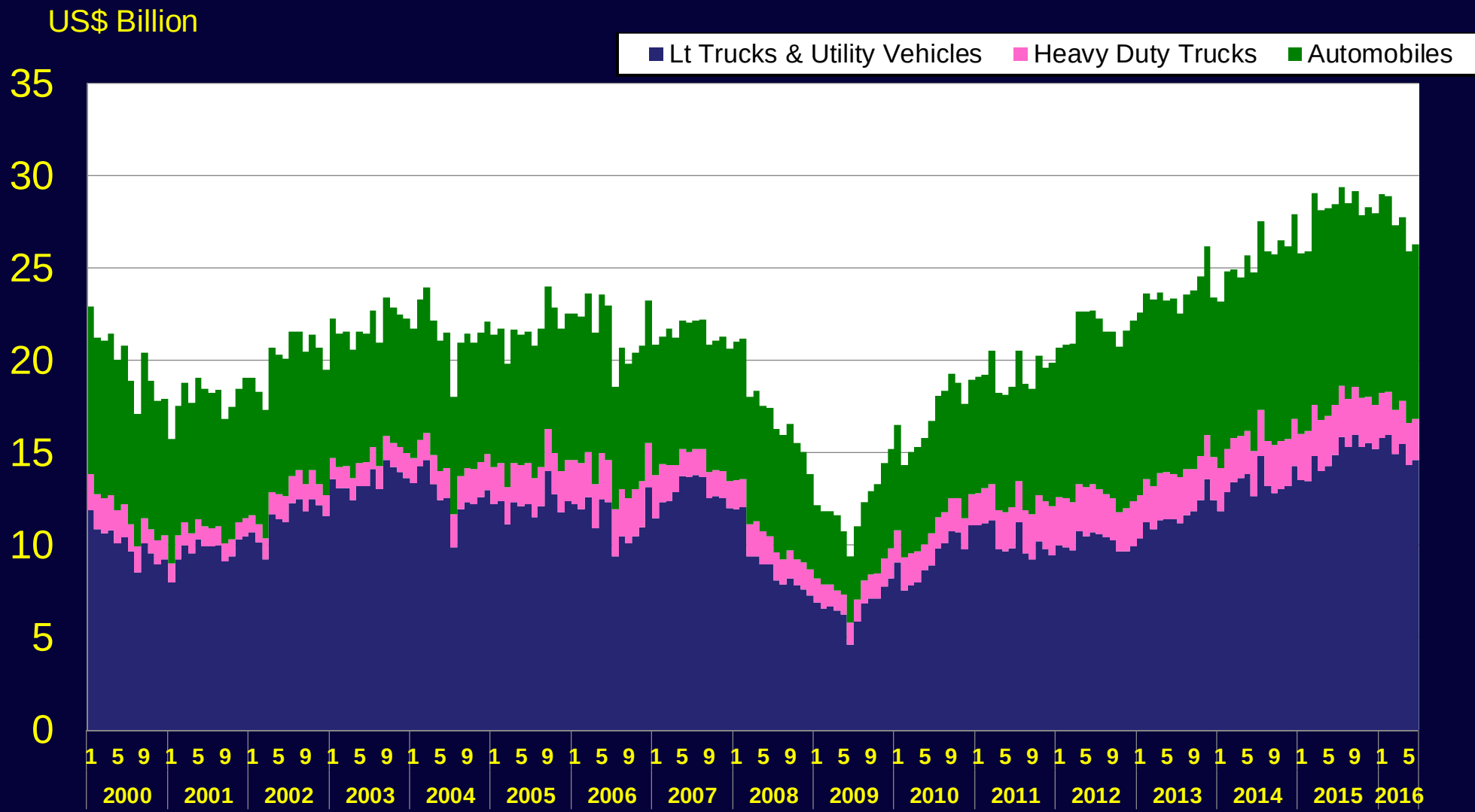
Monthly Data



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

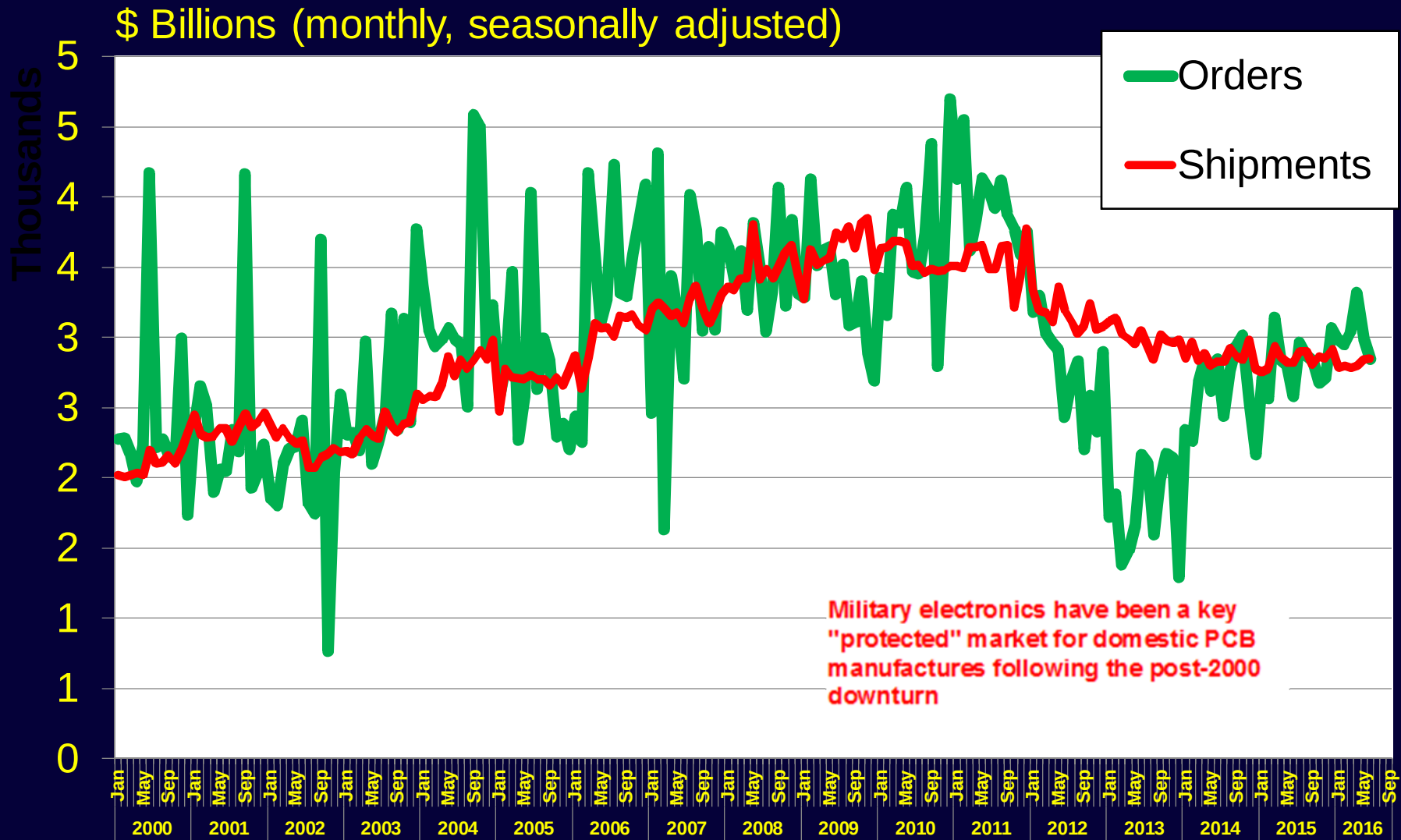


U.S. Vehicle Shipments



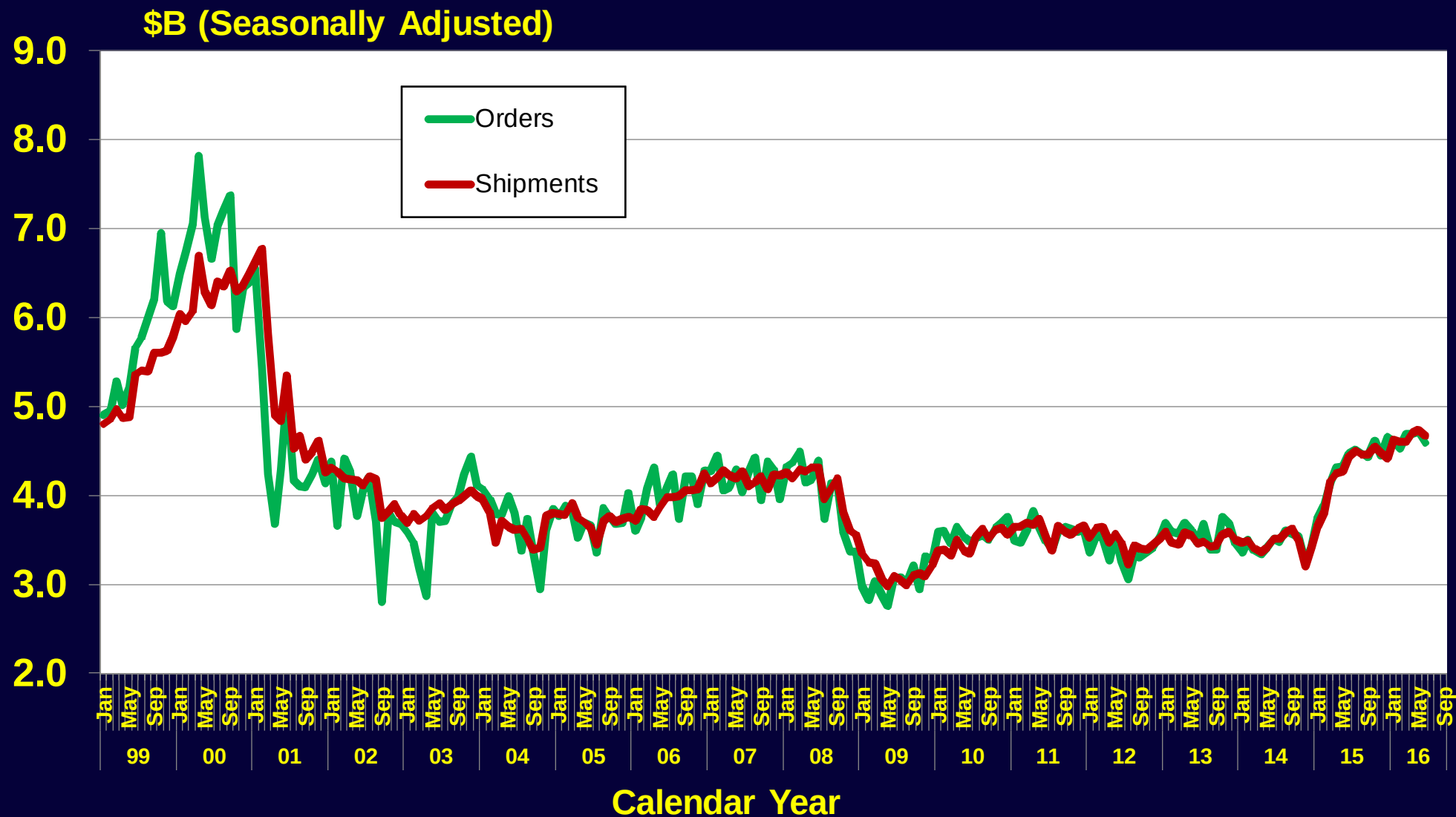
U.S. Military Electronics Orders & Shipments

Defense Communication & Search & Navigation Equipment

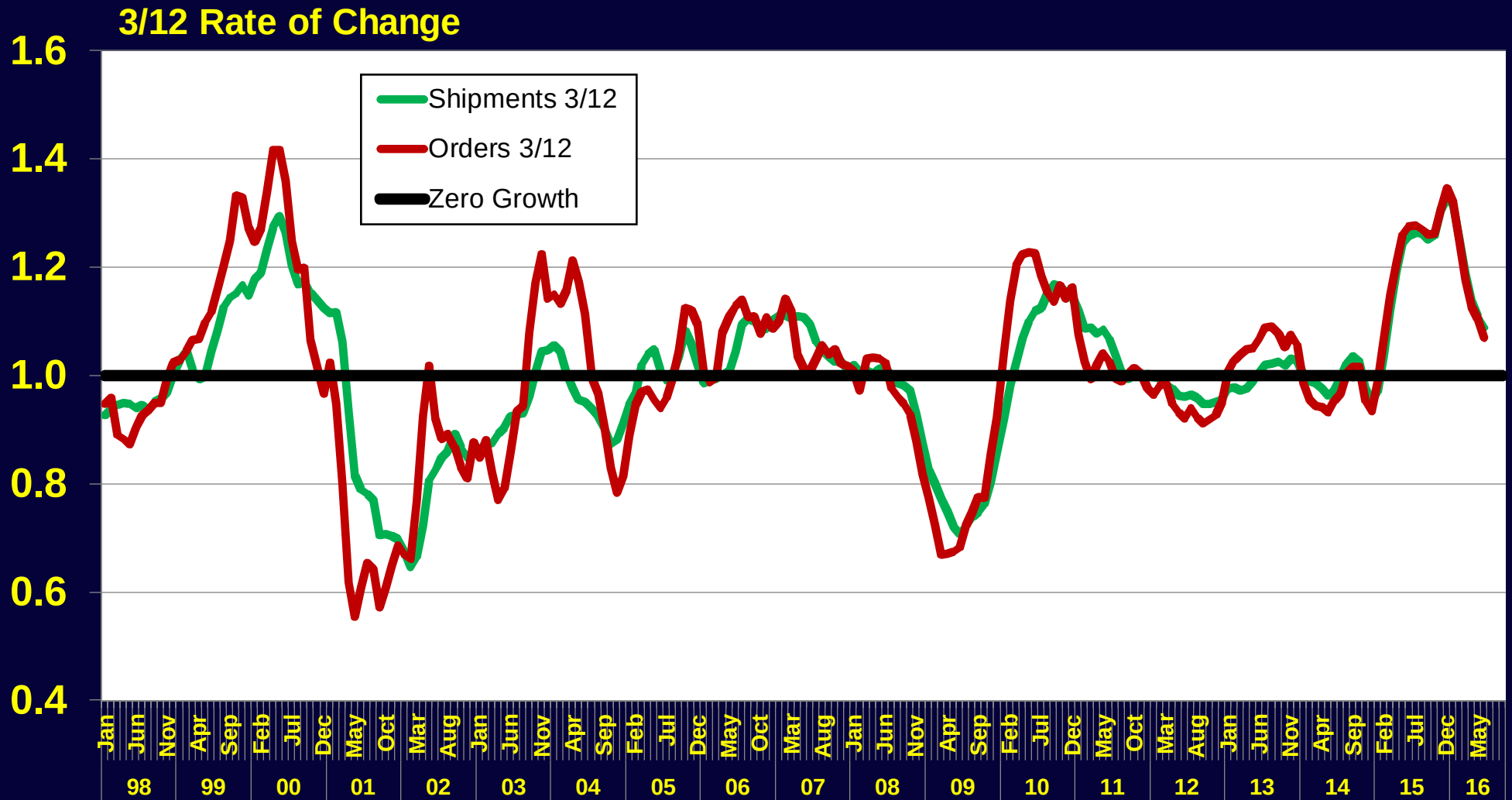


U.S. Production: "Other" Electronic Components (excludes semiconductors)

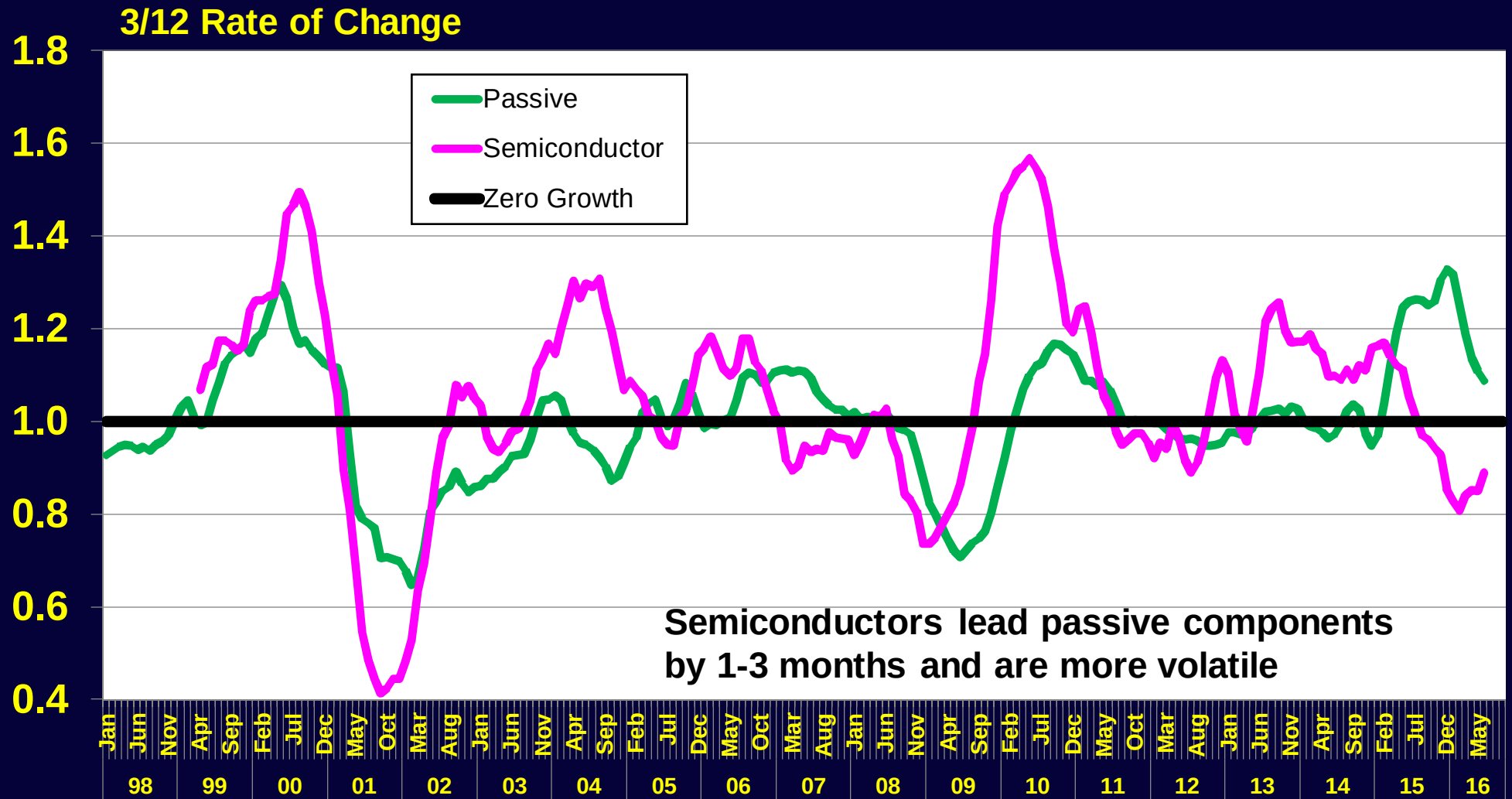
Orders & Shipments



U.S. Passive Component Orders & Shipments



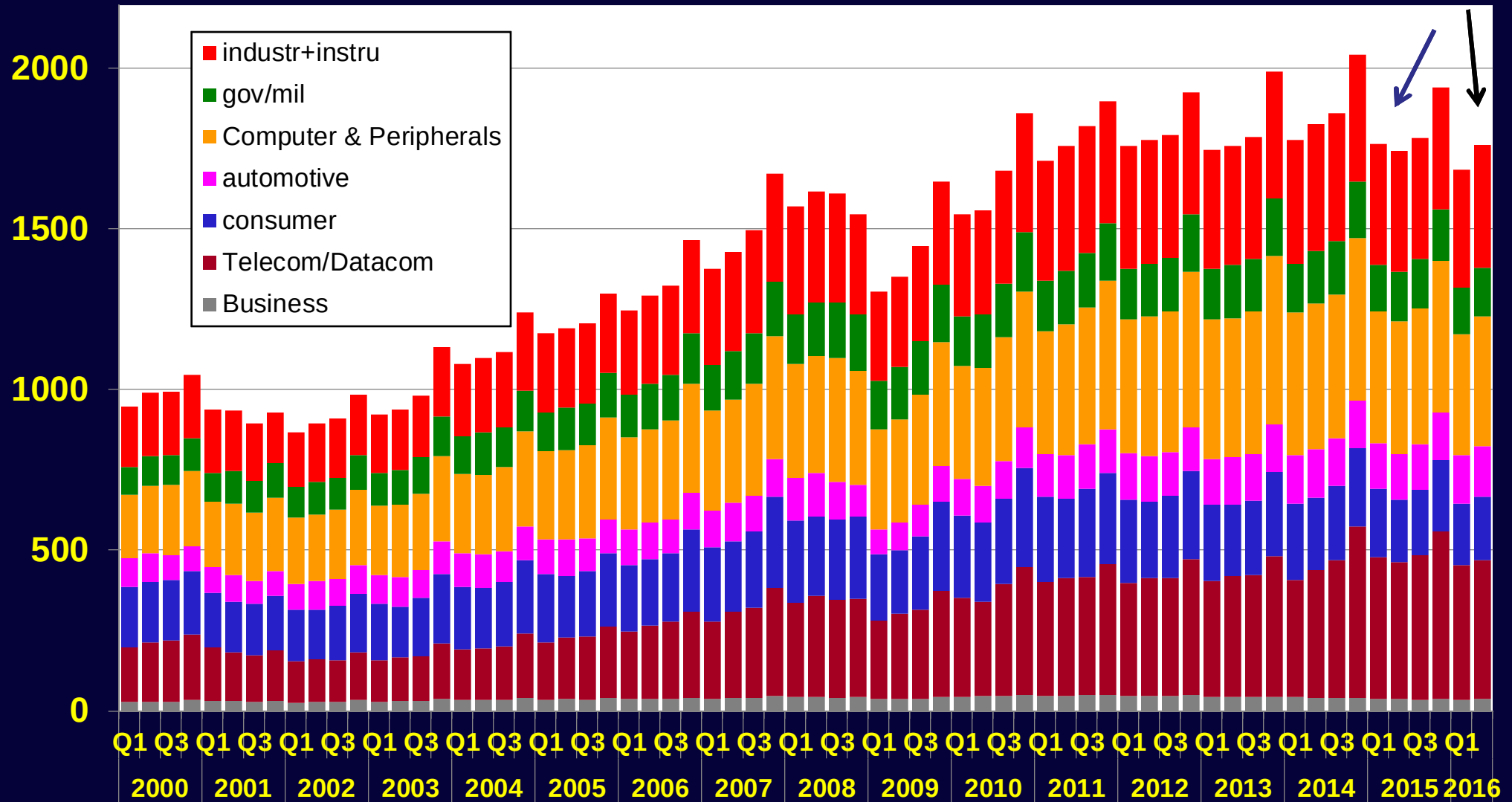
U.S. Passive Components Shipments vs. Semiconductor Shipments to N America



World Electronic Equipment Production By Type

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

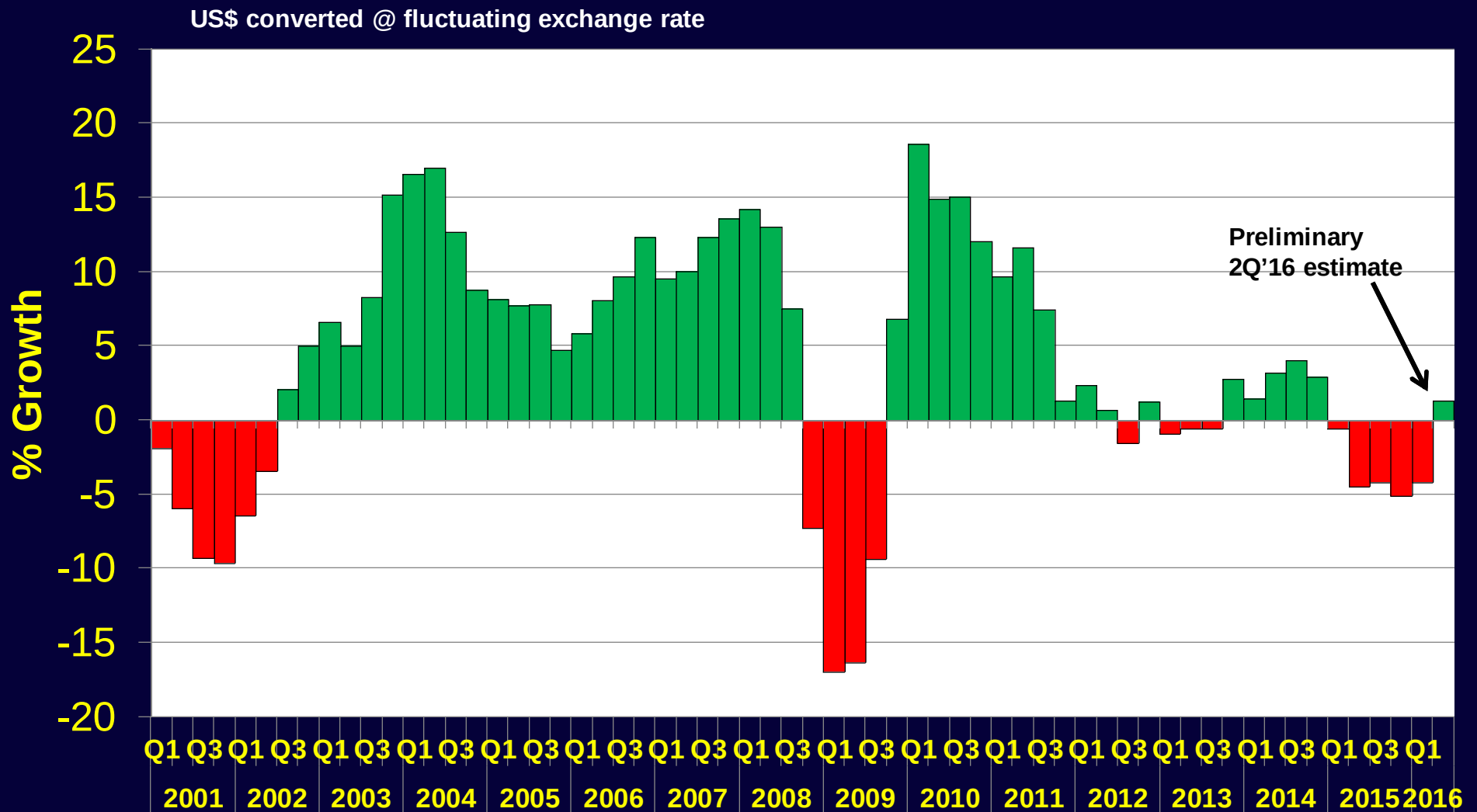
Preliminary
+1.3%



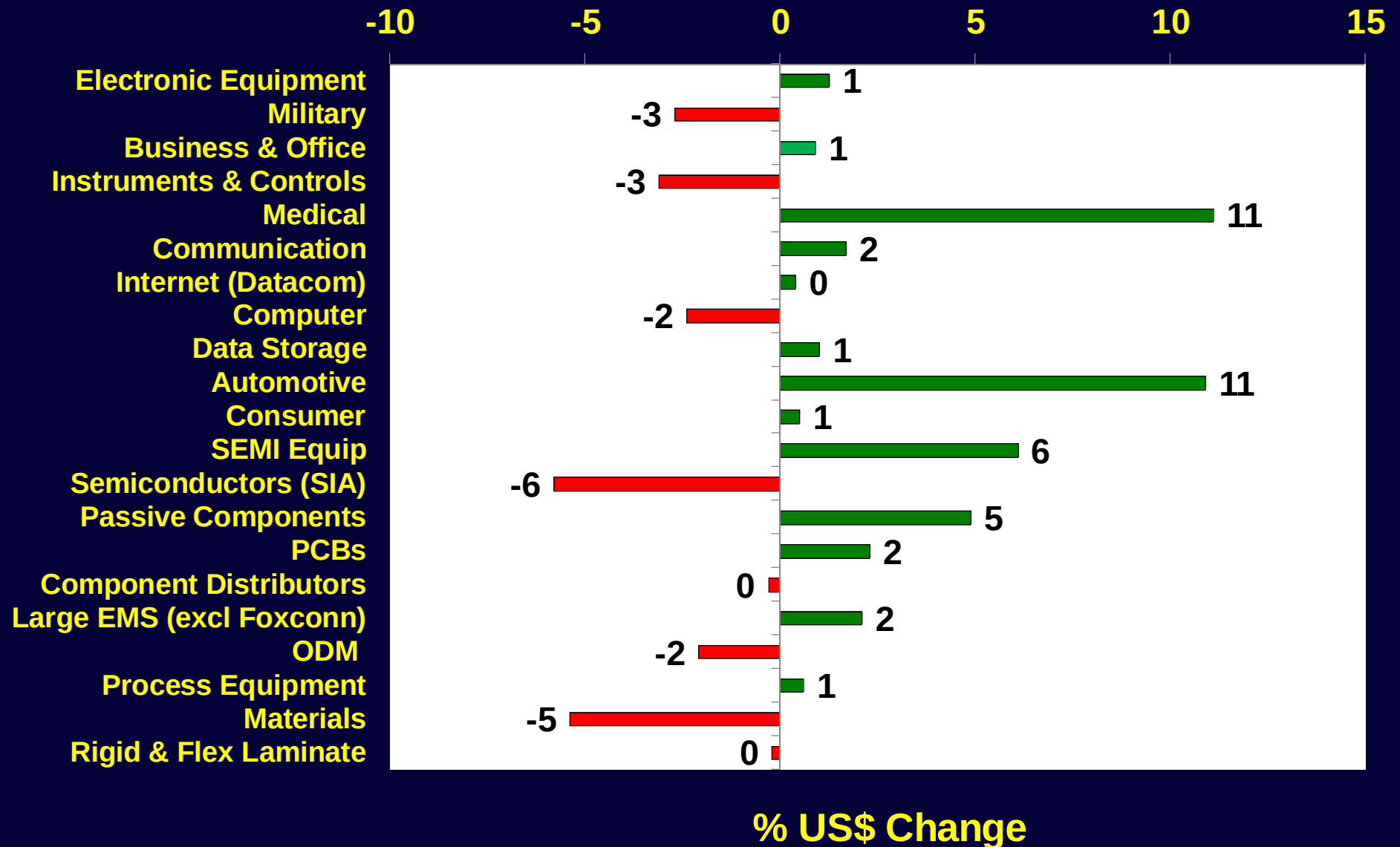
Electronic Equipment Suppliers

Composite of 213 Public Companies

Quarterly Revenue Growth



Global Electronic Supply Chain Growth 2Q'16 vs. 2Q'15 (preliminary)



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