

Chart 1

Global "Purchasing Managers" Index

Diffusion Index, >50 = Growth

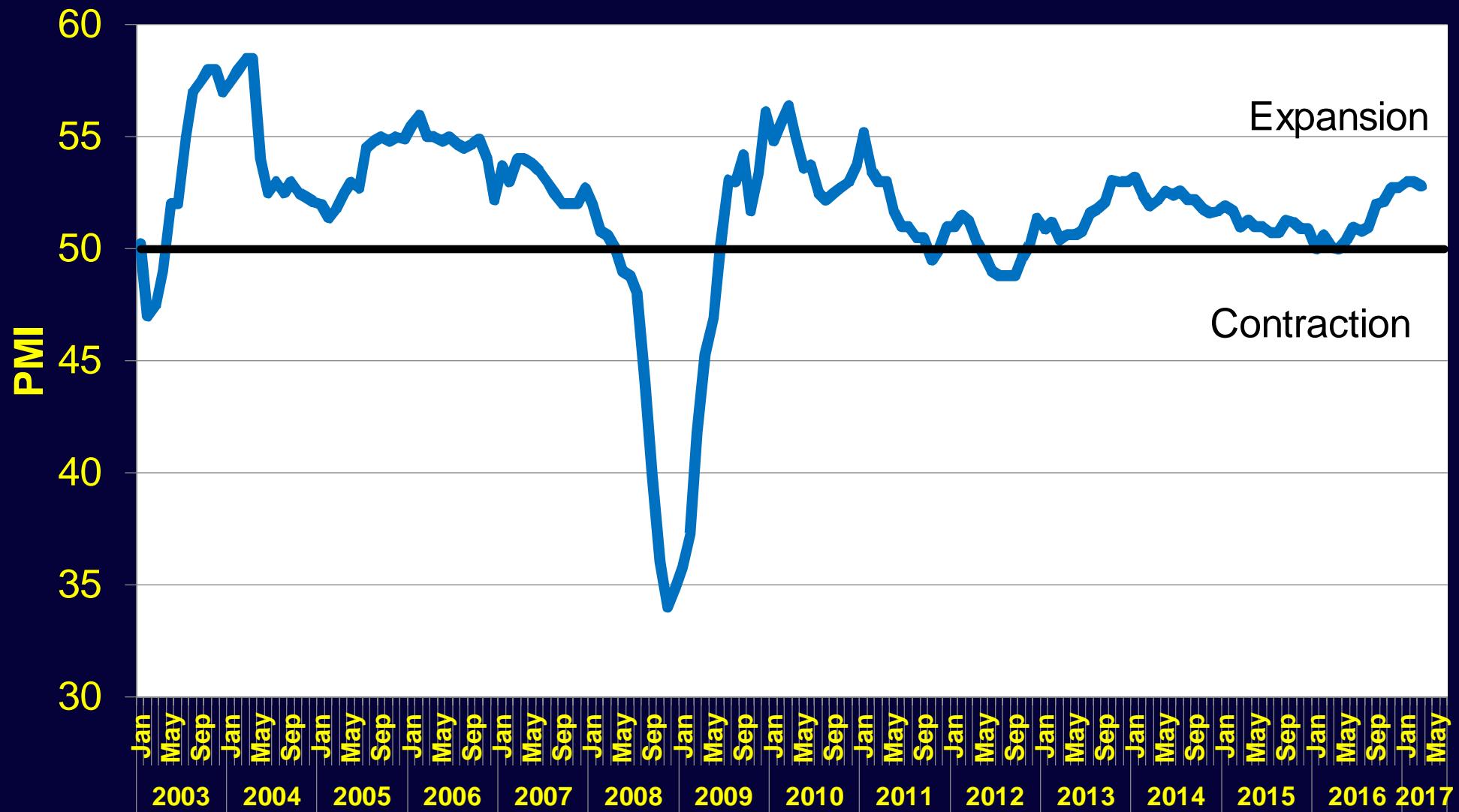


Chart 2

Purchasing Managers' Indices April vs. March 2017

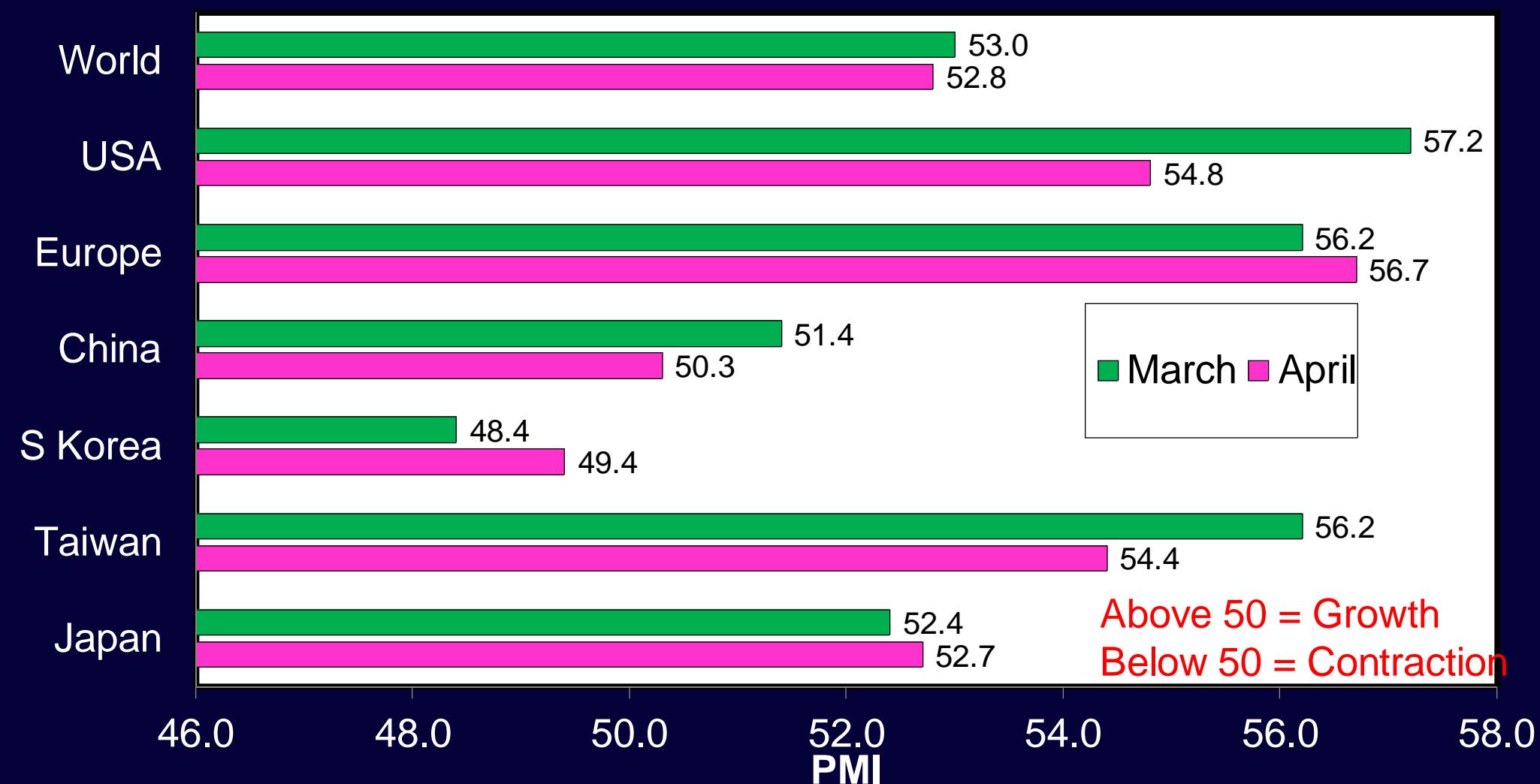


Chart 3

U.S "Purchasing Managers" Indices ISM vs. Markit Economics

Diffusion Index, >50 = Growth

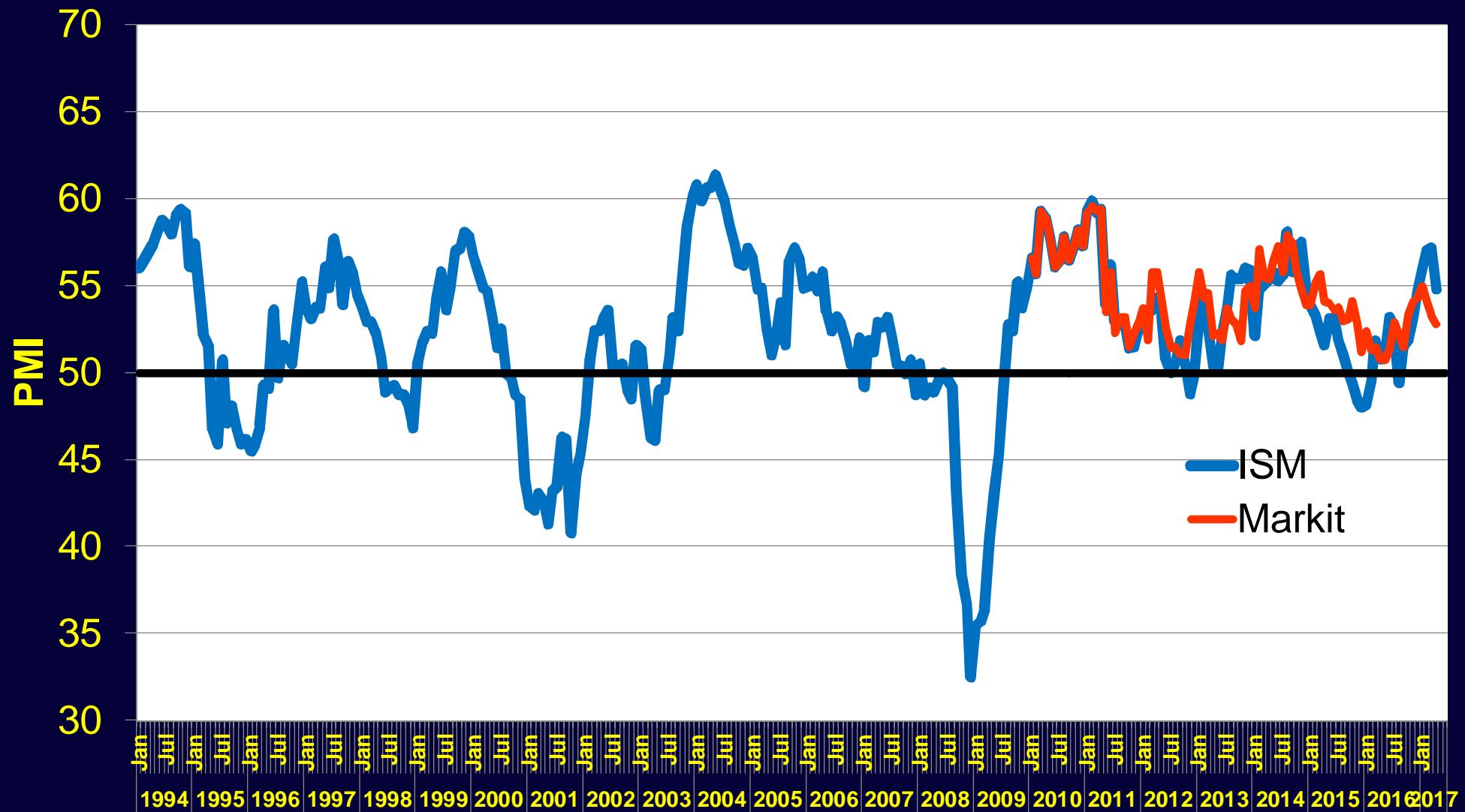


Chart 4

Eurozone "Purchasing Managers" Index

Diffusion Index, >50 = Growth

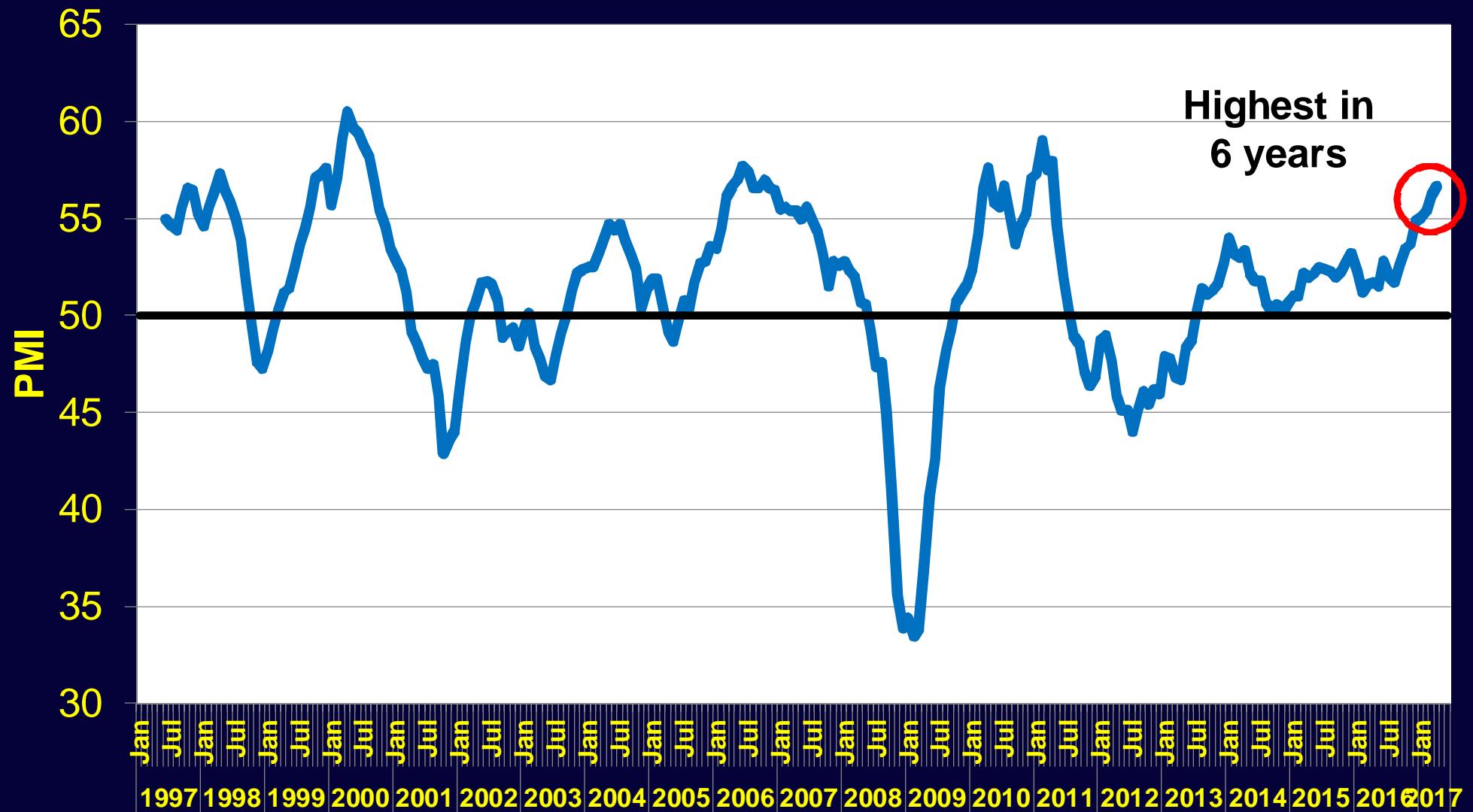


Chart 5

European Purchasing Managers' Indices

April vs March 2017

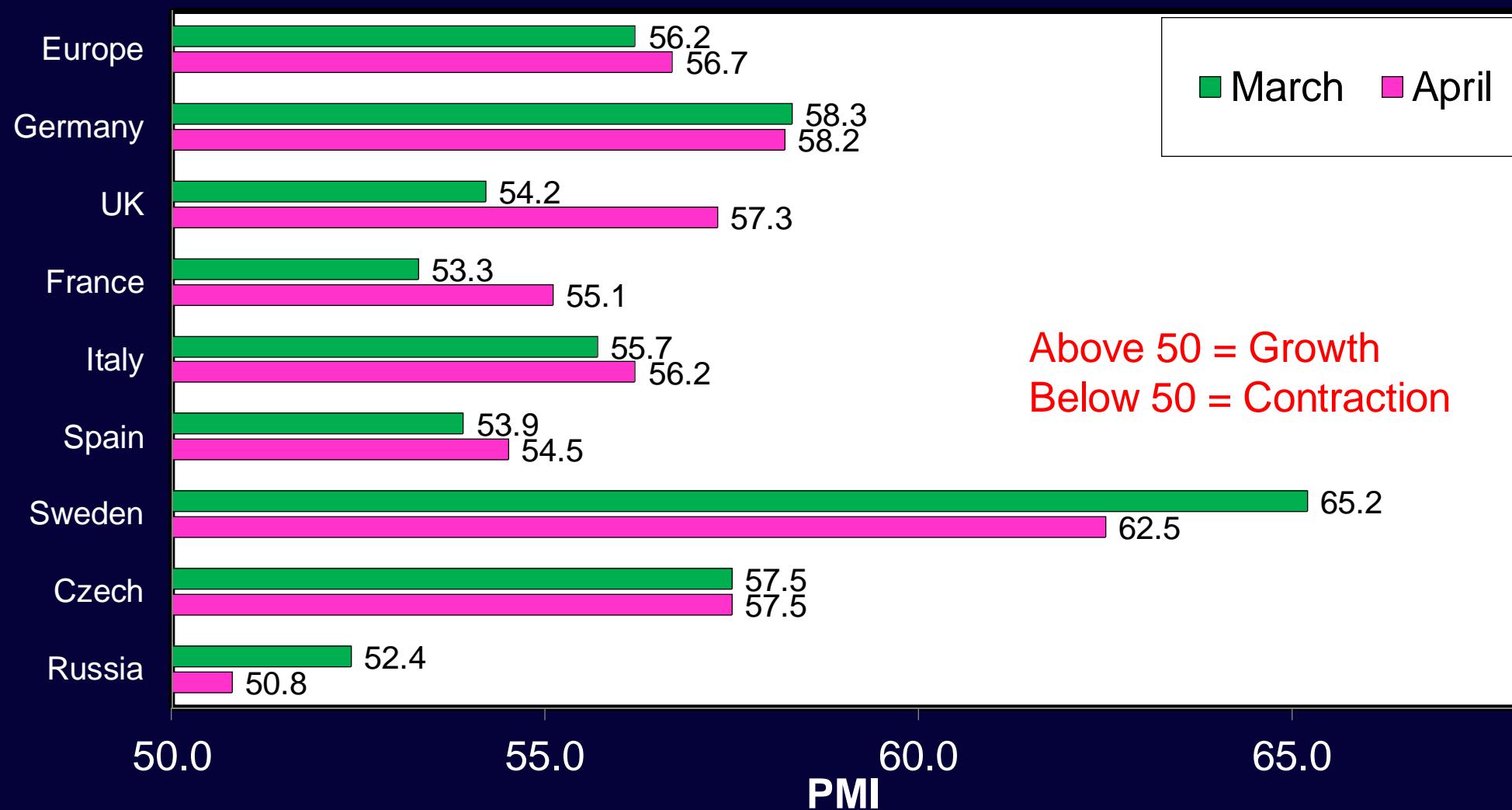


Chart 6

Asian Purchasing Managers Indices

April vs. March 2017

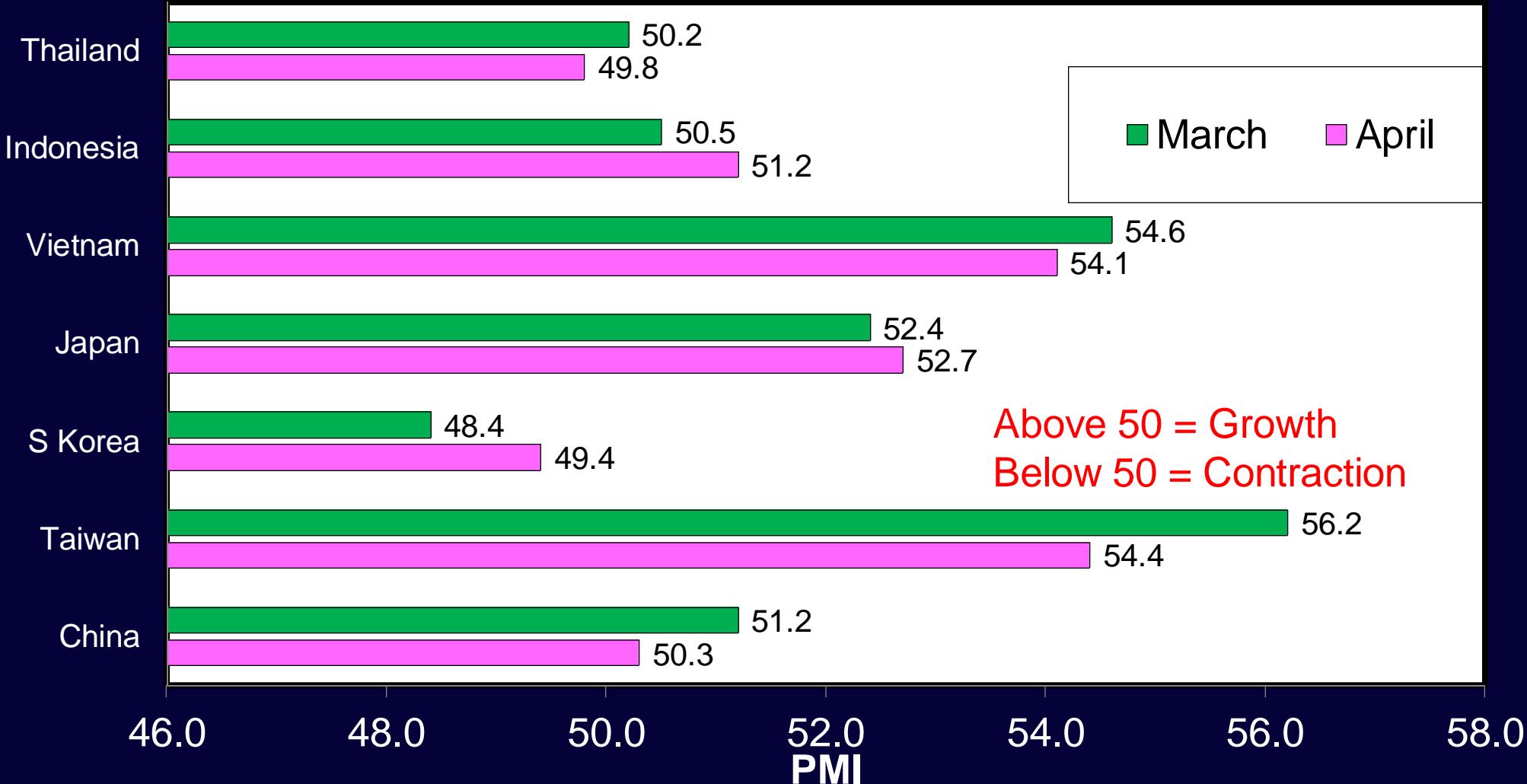


Chart 7

Japan "Purchasing Managers' Index"

>50 = Growth

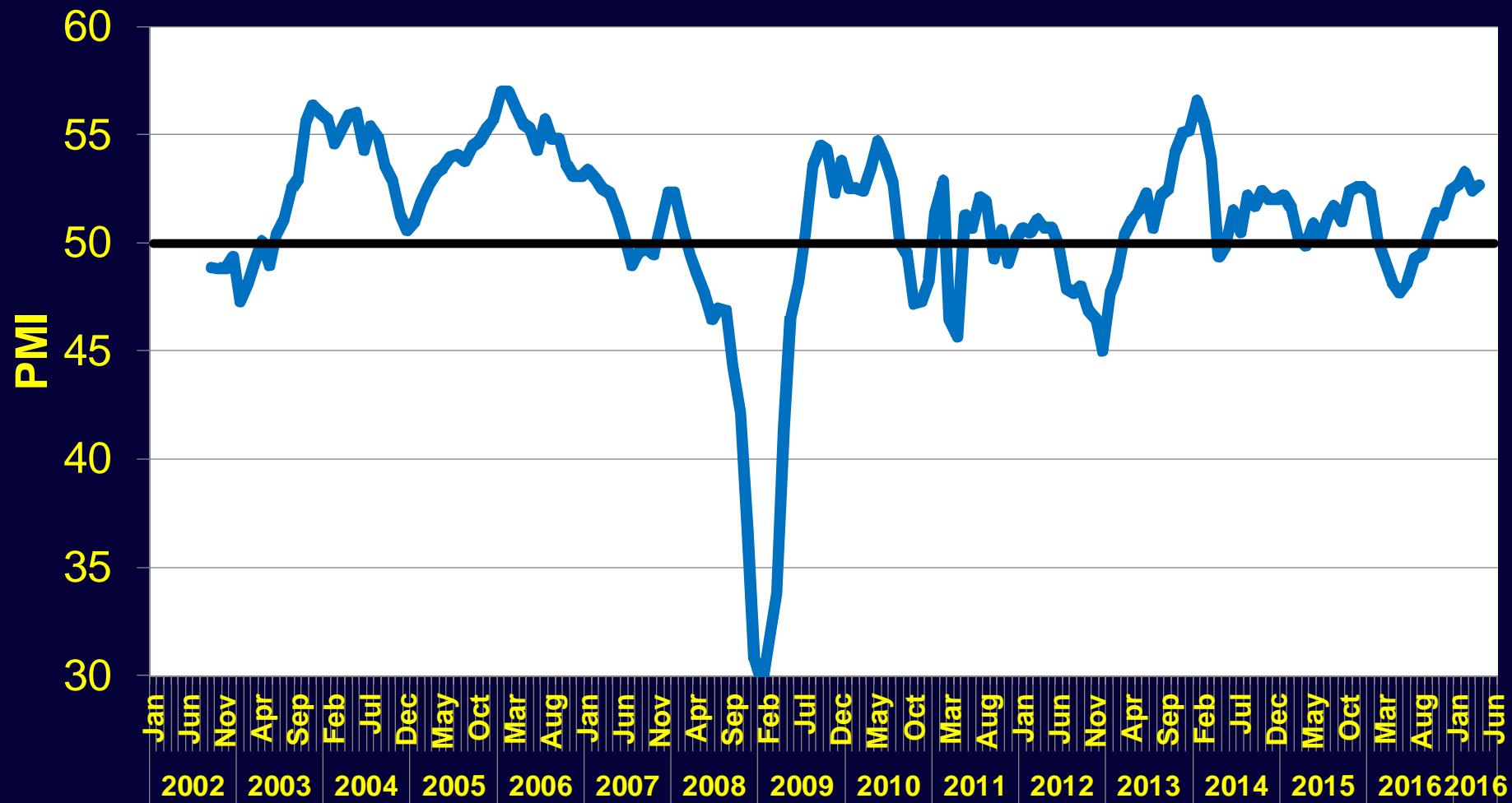


Chart 8

China "Purchasing Managers" Index

>50 = Growth

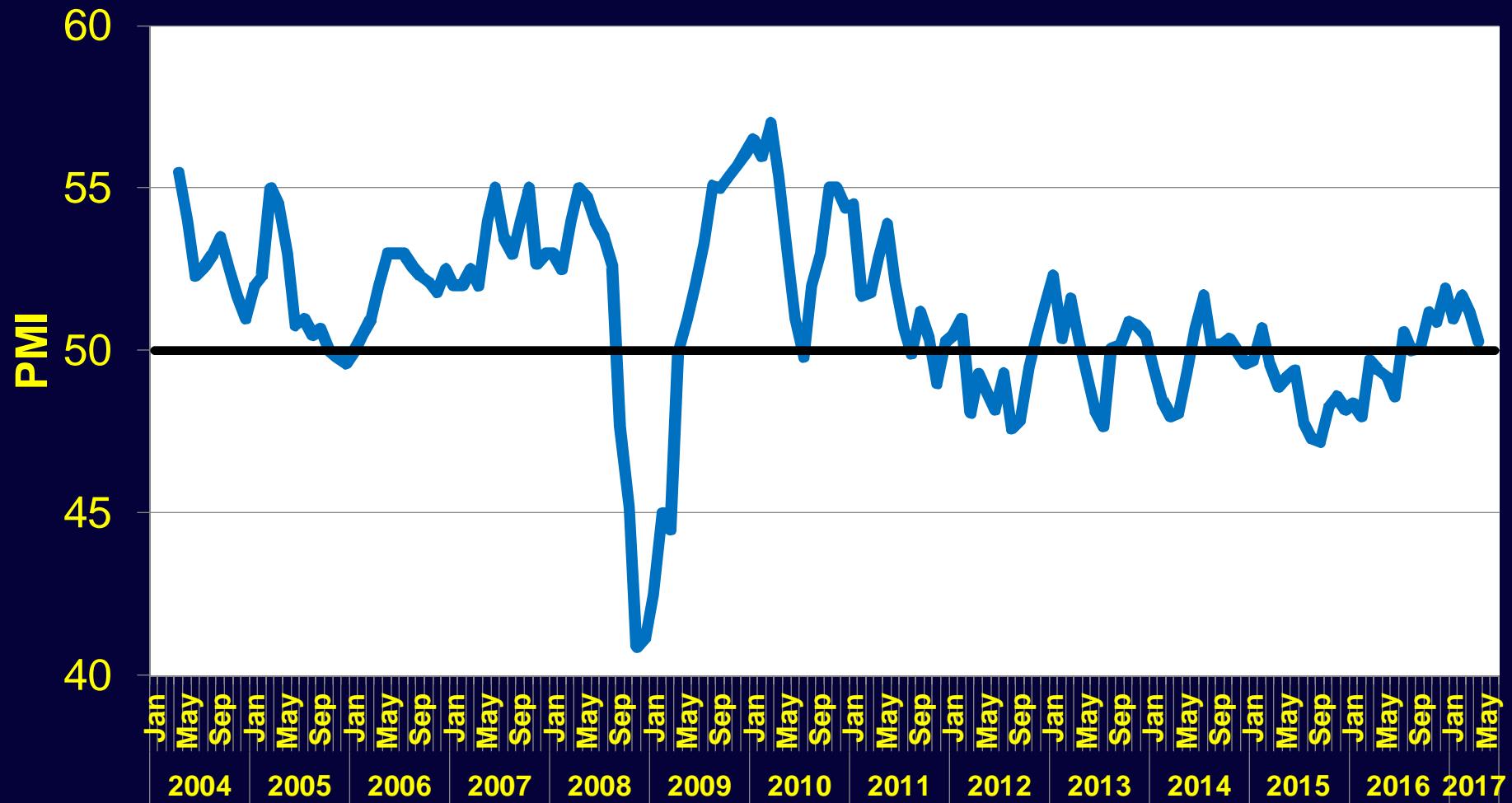


Chart 9

Taiwan "Purchasing Managers" Index

>50 = Growth

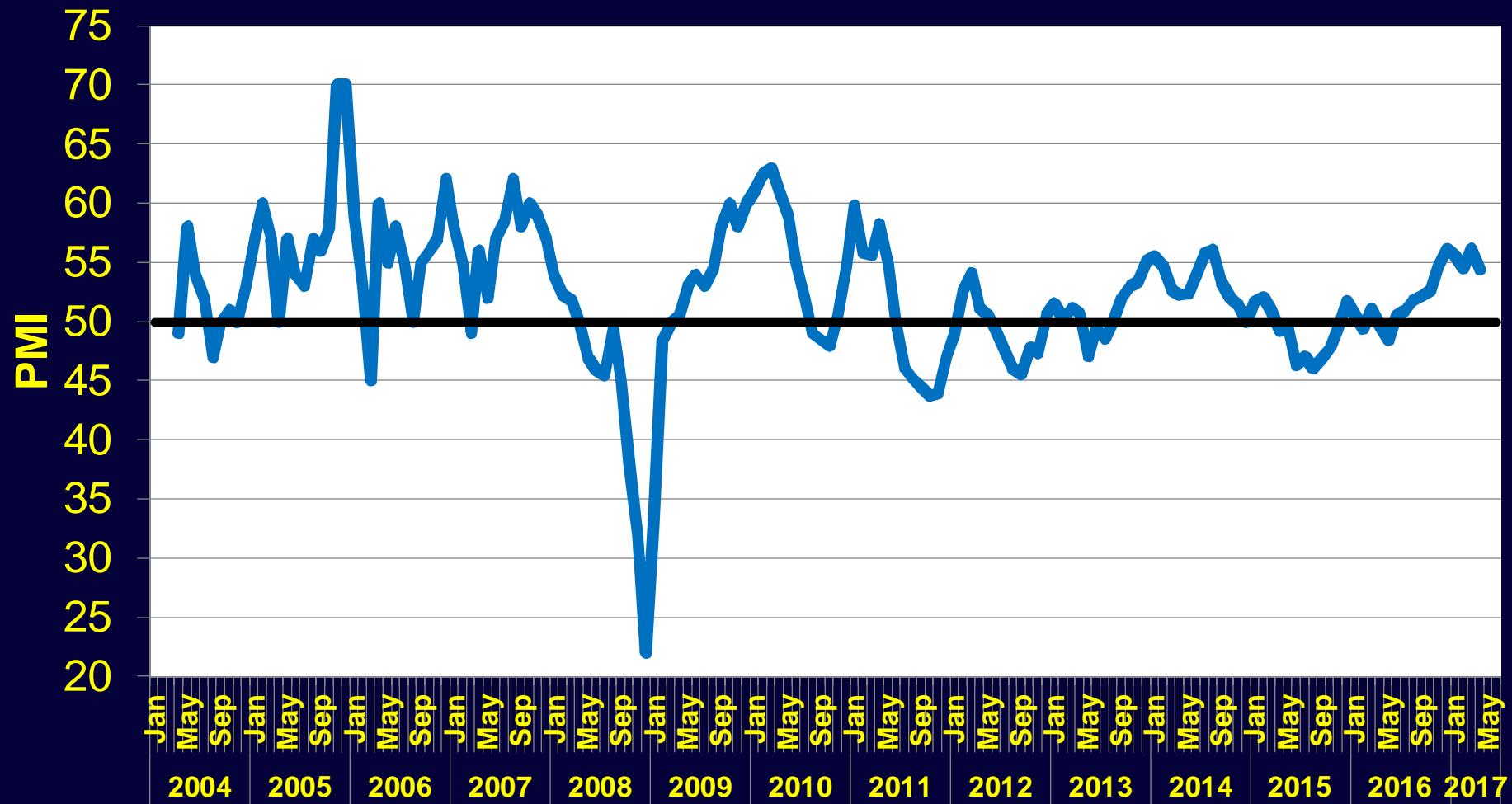


Chart 10

S Korea "Purchasing Managers" Index

>50 = Growth

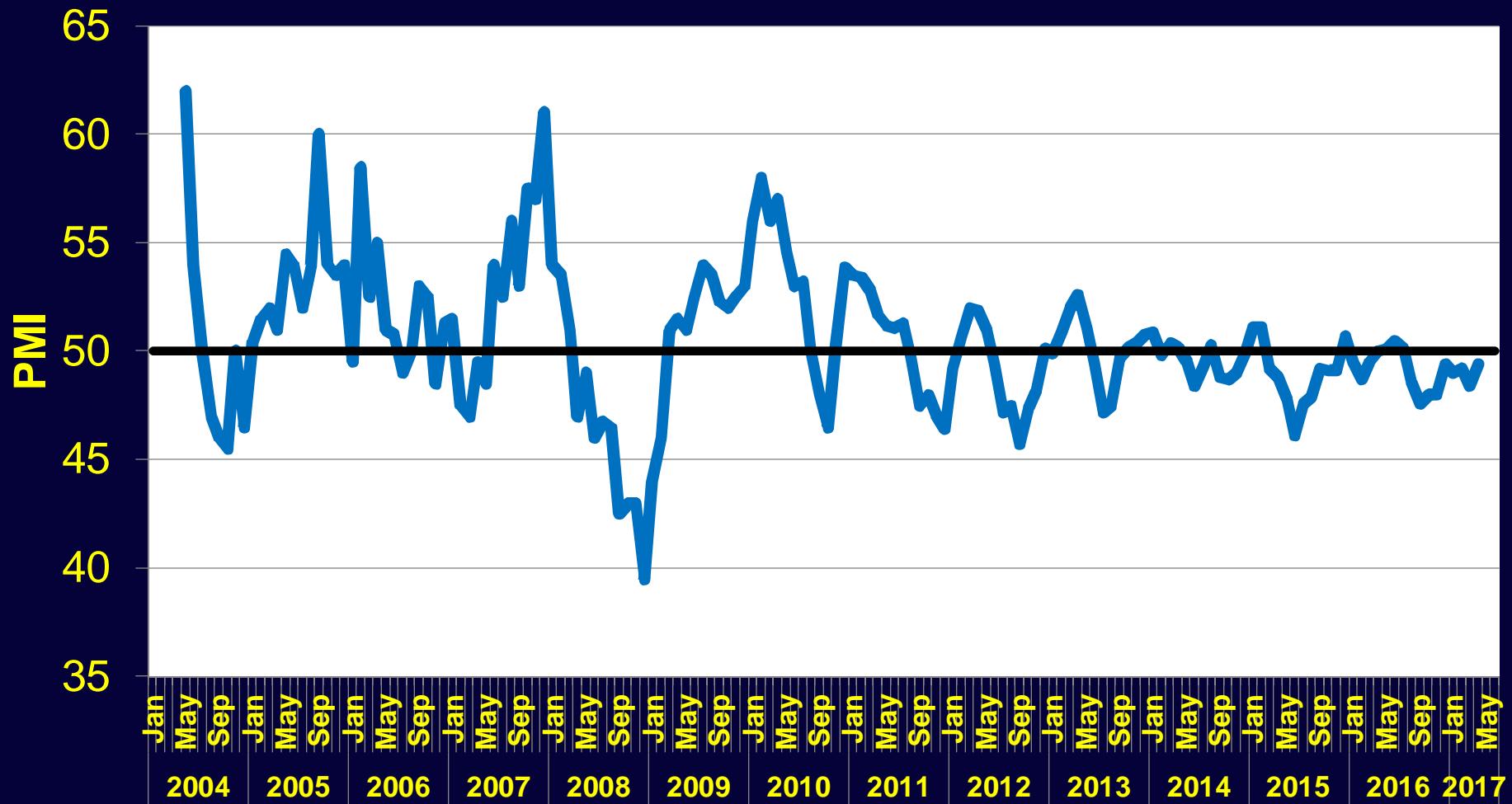
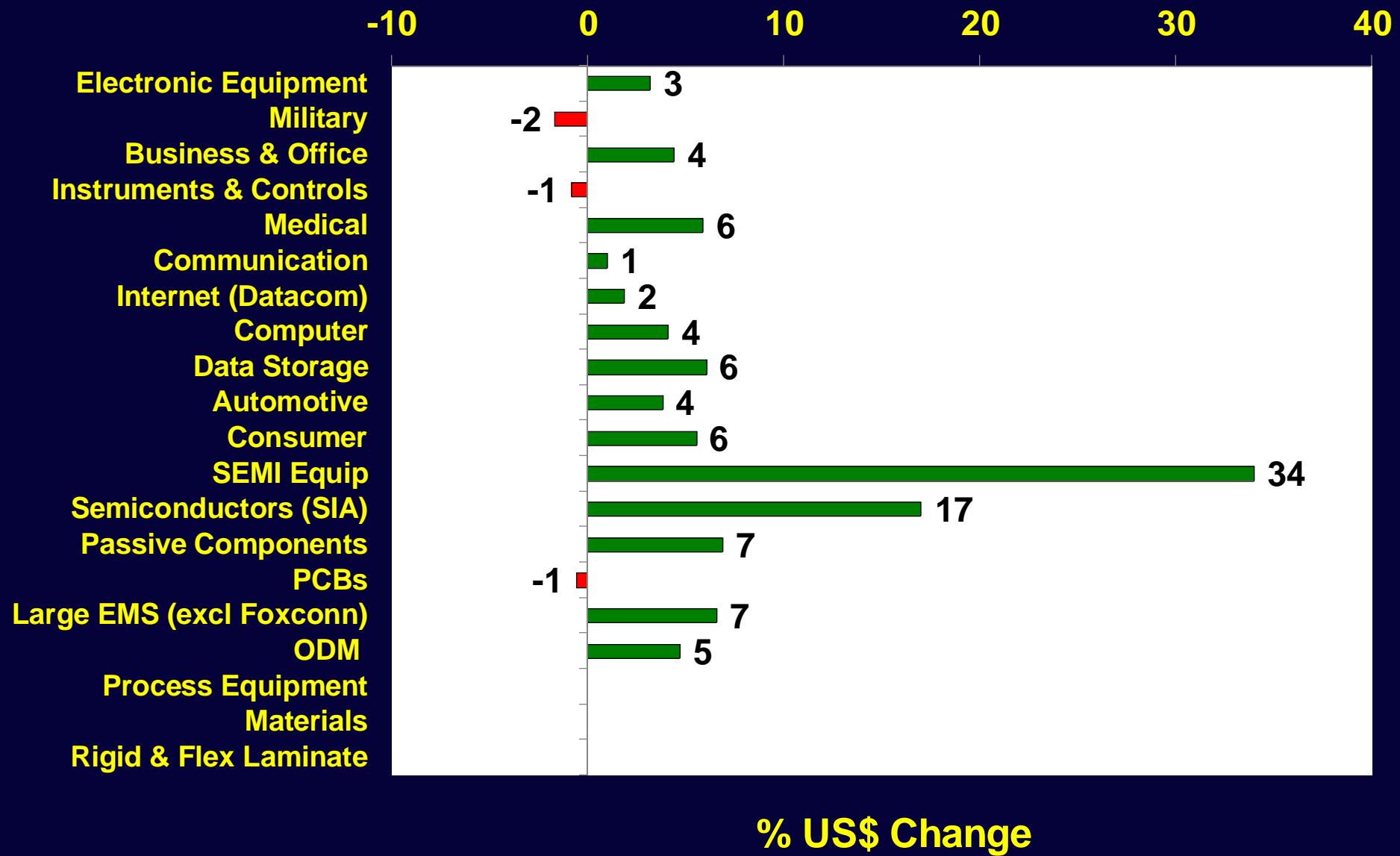


Chart 11

Global Electronic Supply Chain Growth 1Q'17 vs. 1Q'16 (preliminary)



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

Chart 12

World Electronic Equipment Production By Type

+3.2%

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

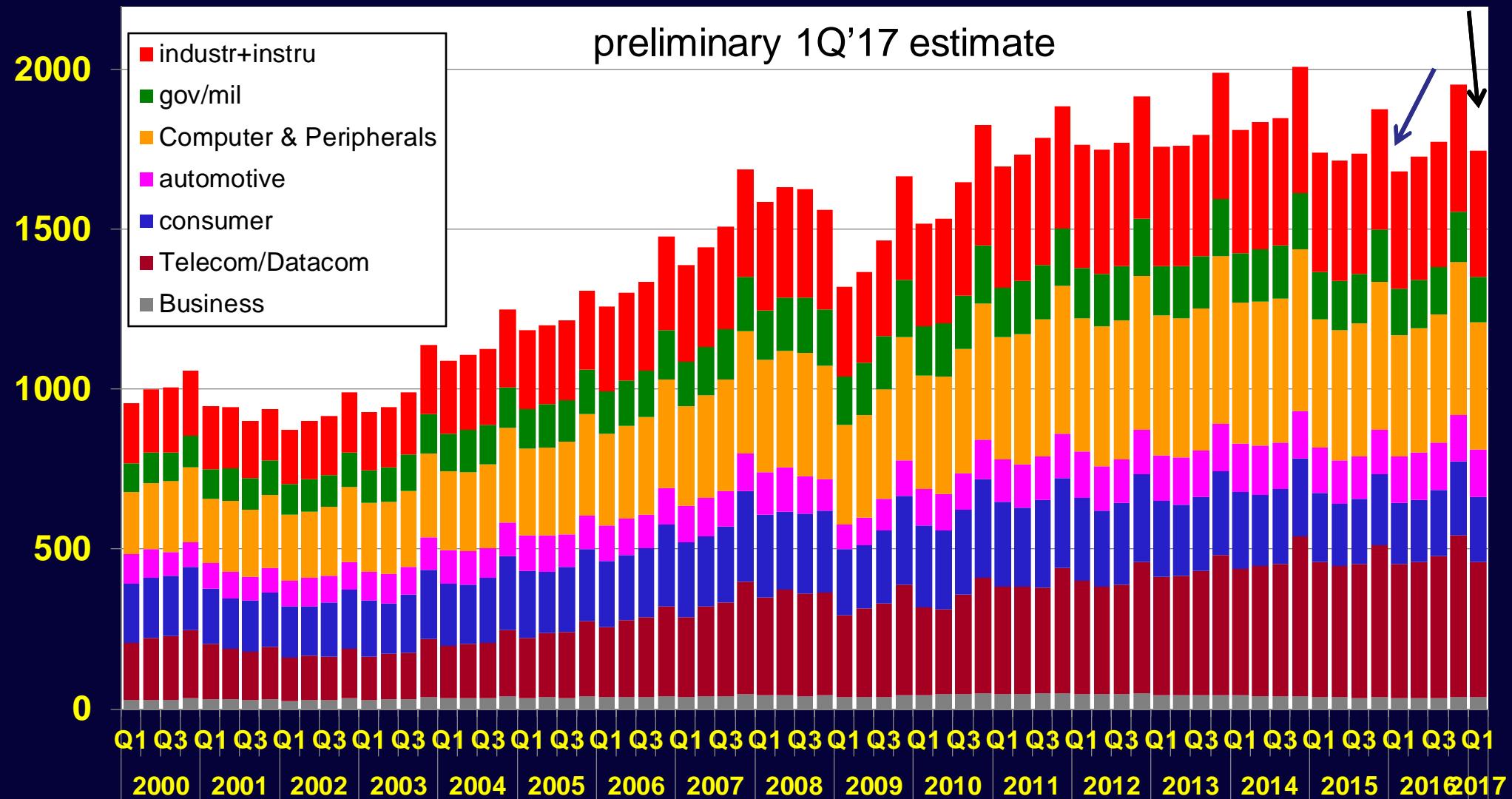
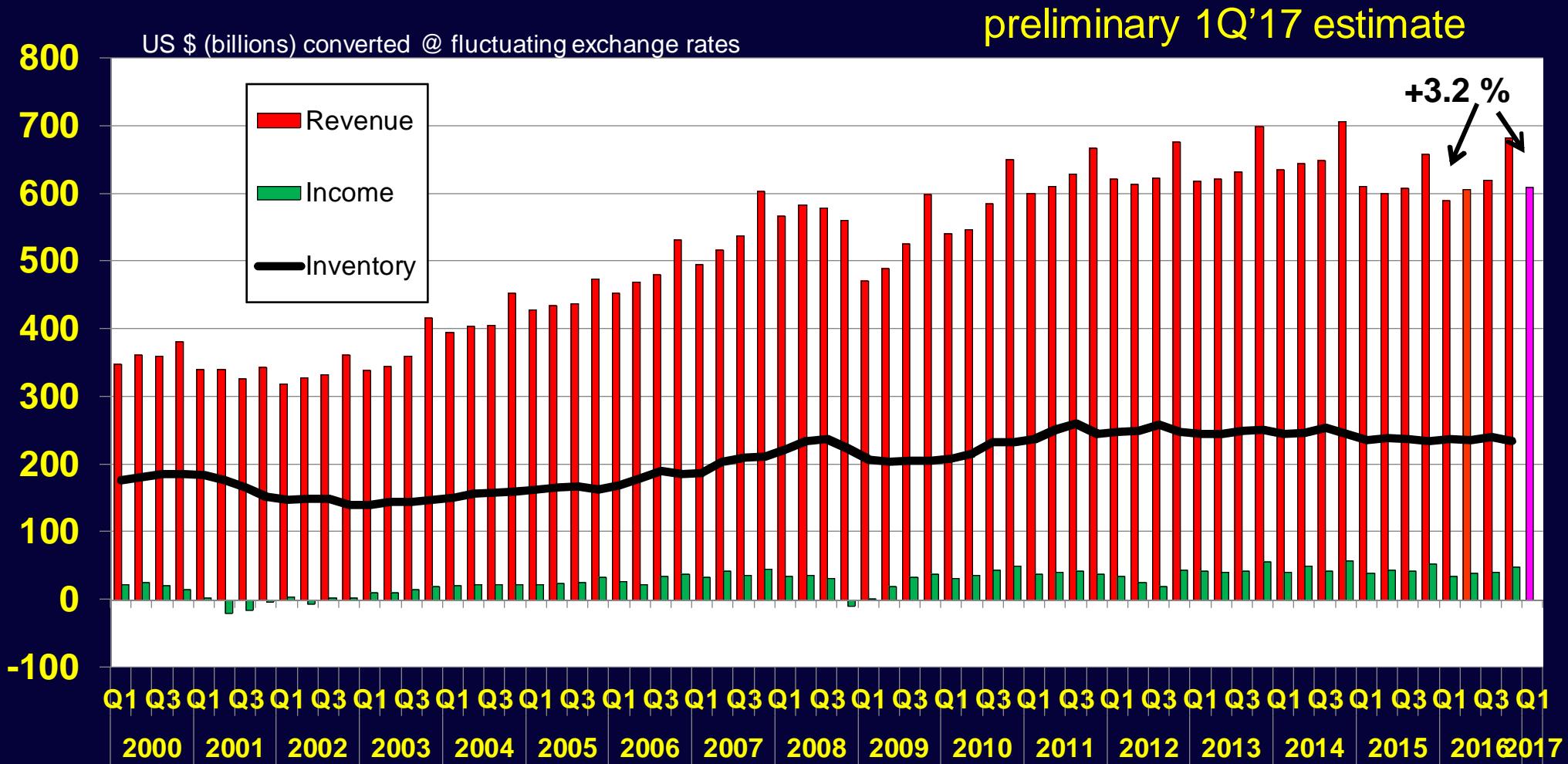


Chart 13

Electronic Equipment Suppliers Composite of 213 Public Companies

Revenue, Net Income & Inventory



Computer 13, Internet 13, Storage 17, Communication 30, SEMI 40, Medical 21, Instruments 16, Military 21, Business & Office 6, Consumer 21, Automotive 15

Chart 14

Electronic Equipment Suppliers Composite of 213 Public Companies Quarterly Revenue Growth

US\$ converted @ fluctuating exchange rate

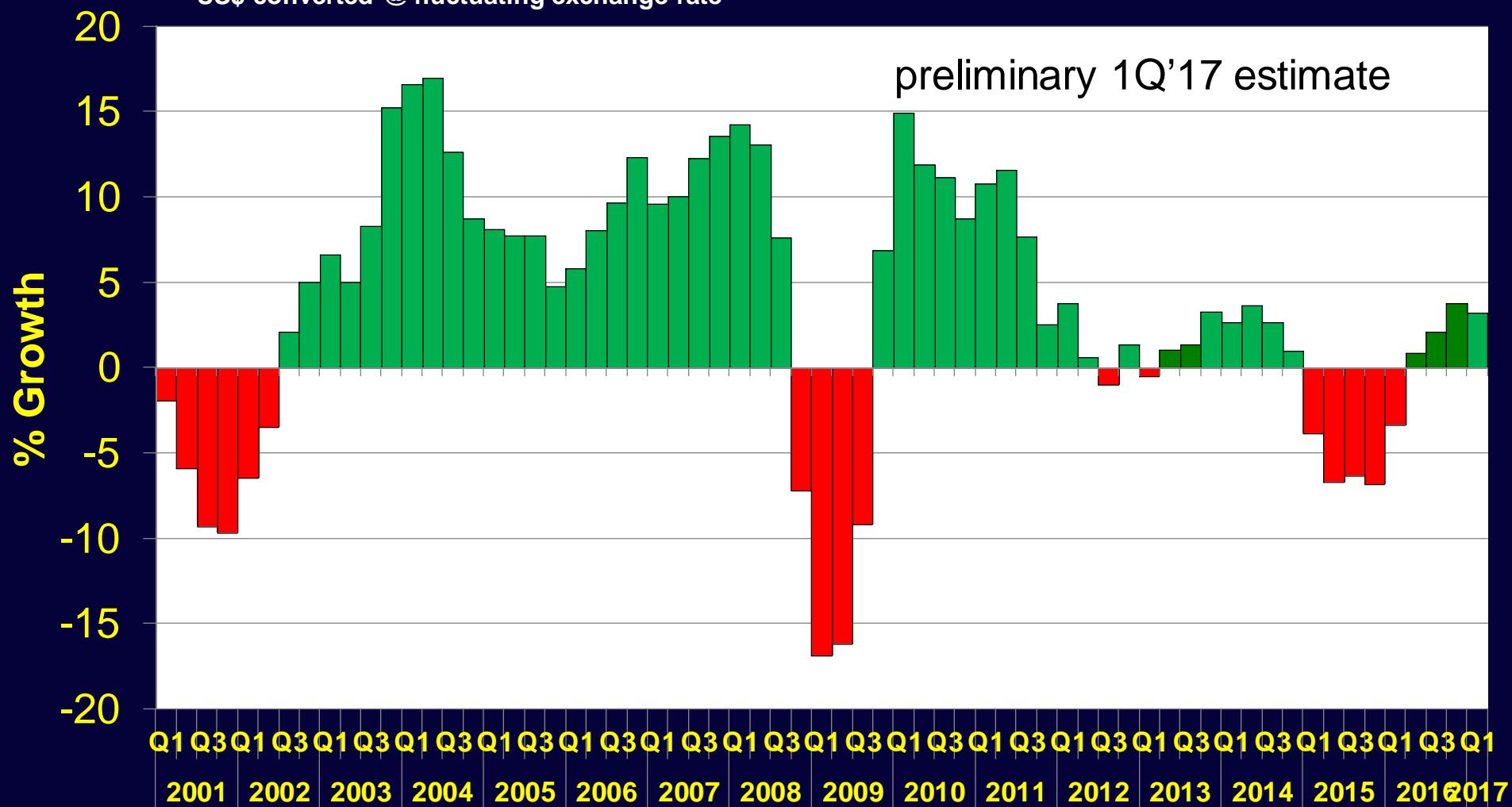


Chart 15

U.S. Electronic Equipment Orders

Monthly Data

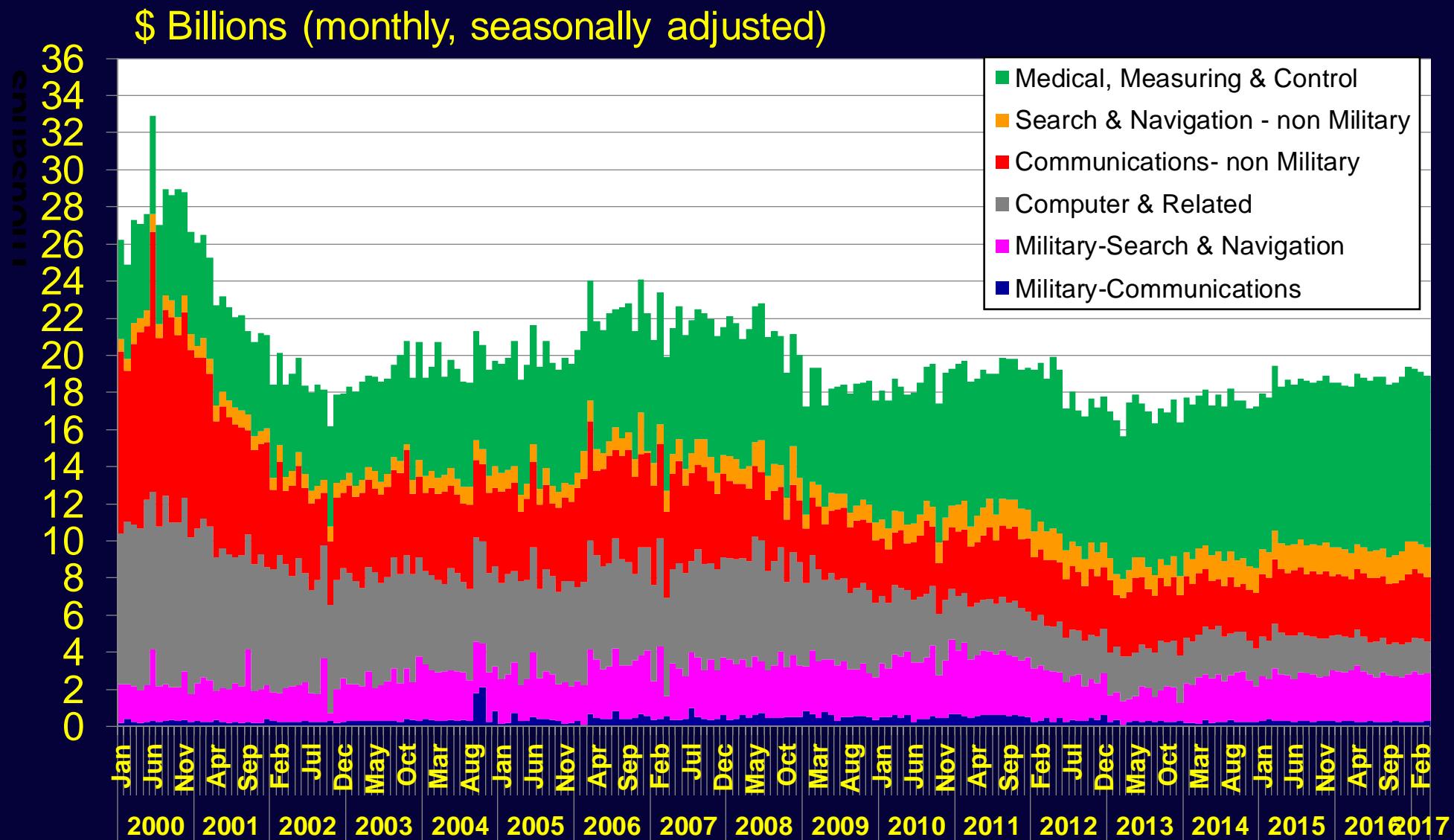


Chart 16

U.S. Electronic Equipment Orders Monthly Data

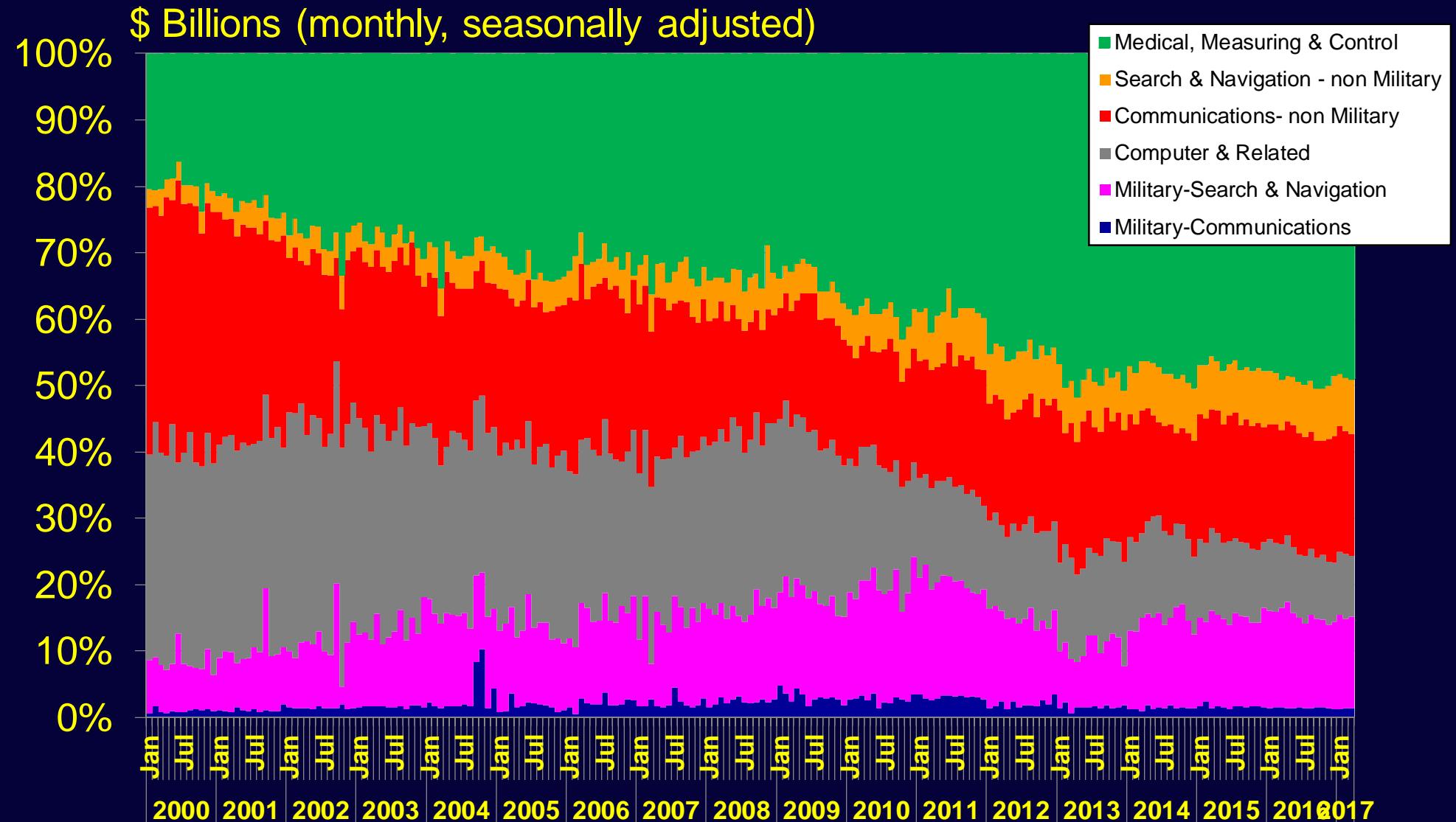


Chart 17

U.S. Vehicle Shipments

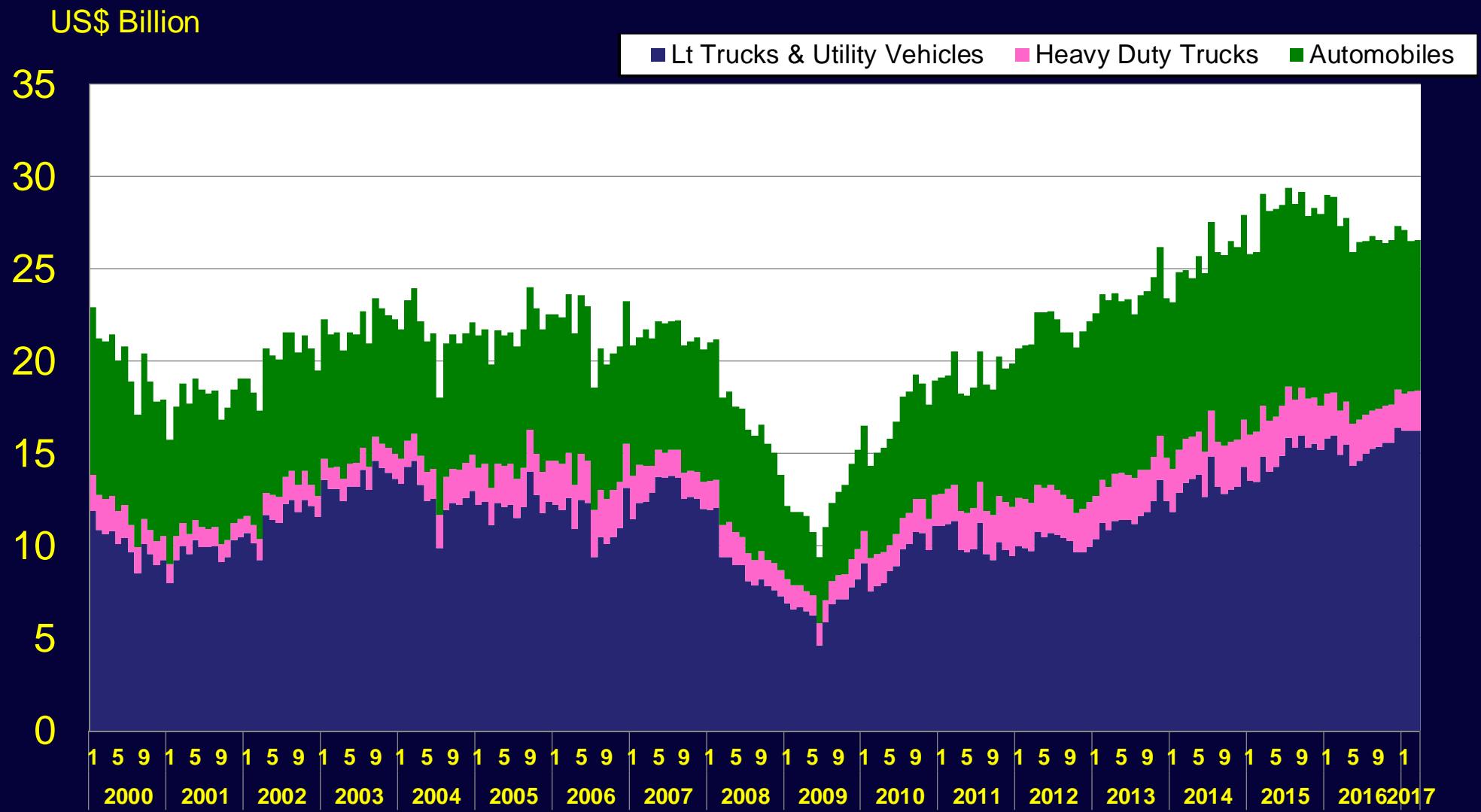


Chart 18

U.S. Defense Capital Goods Orders & Shipments

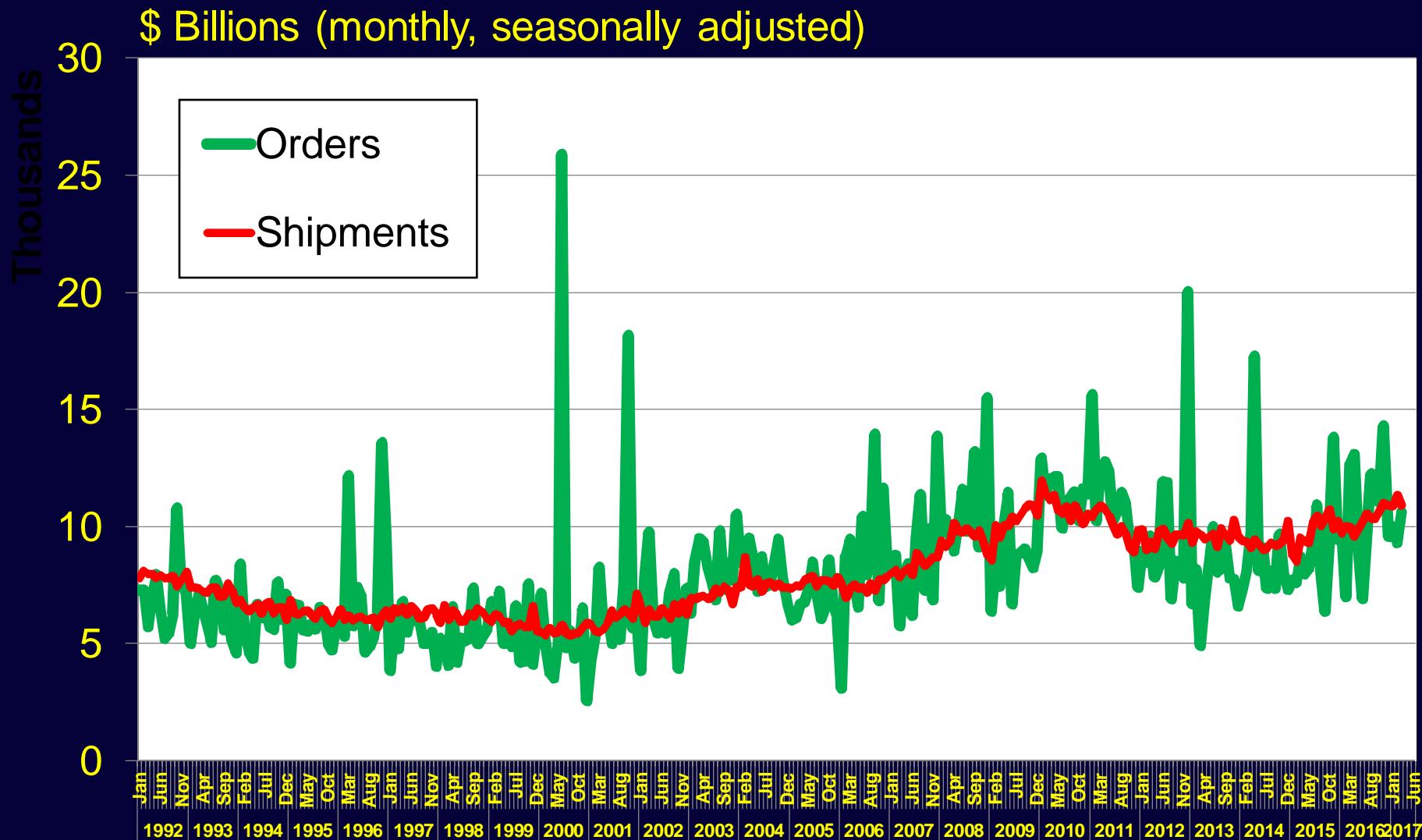


Chart 19

U.S. Aircraft & Parts Shipments

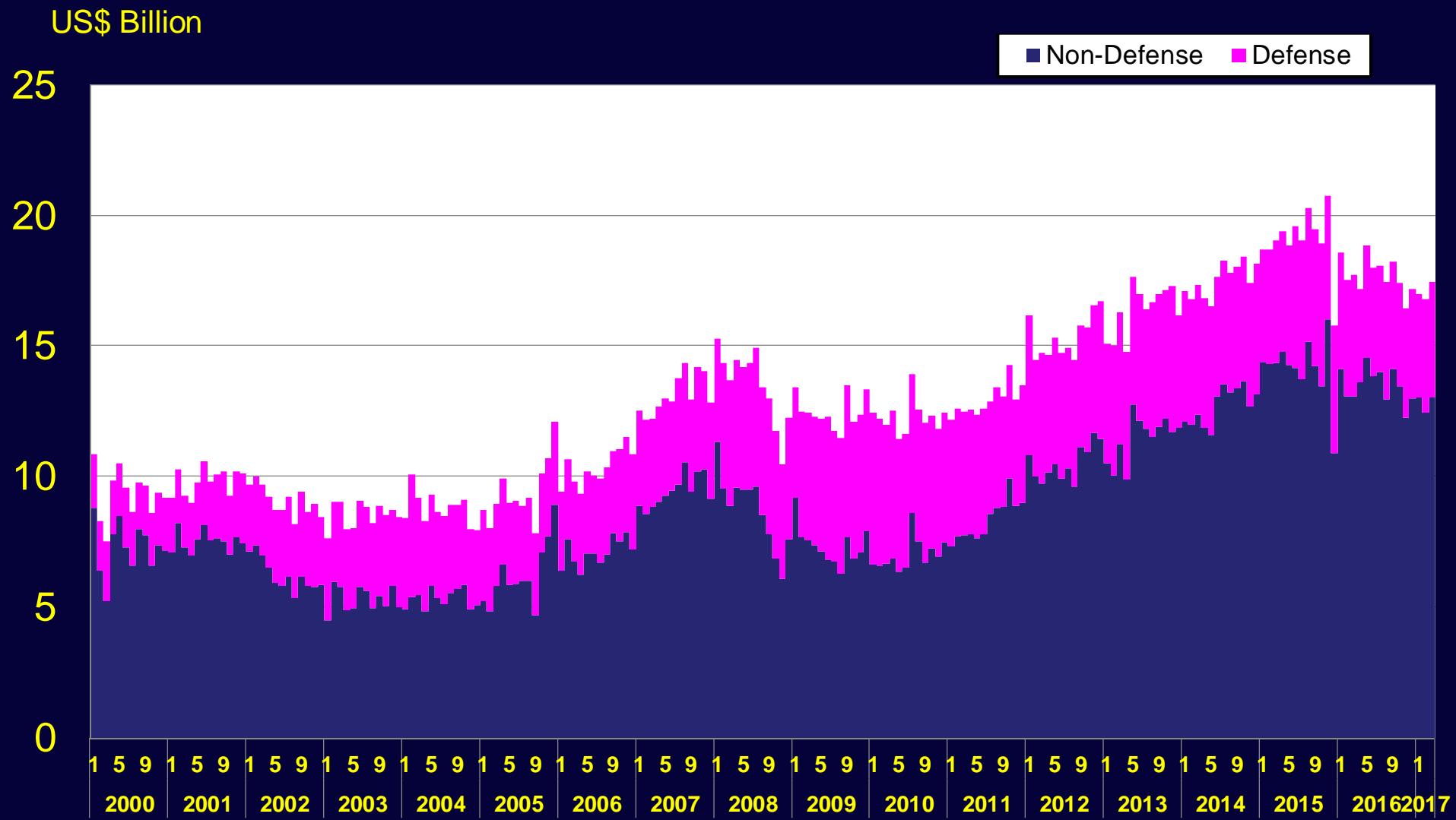


Chart 20

U.S. Aircraft & Parts Orders

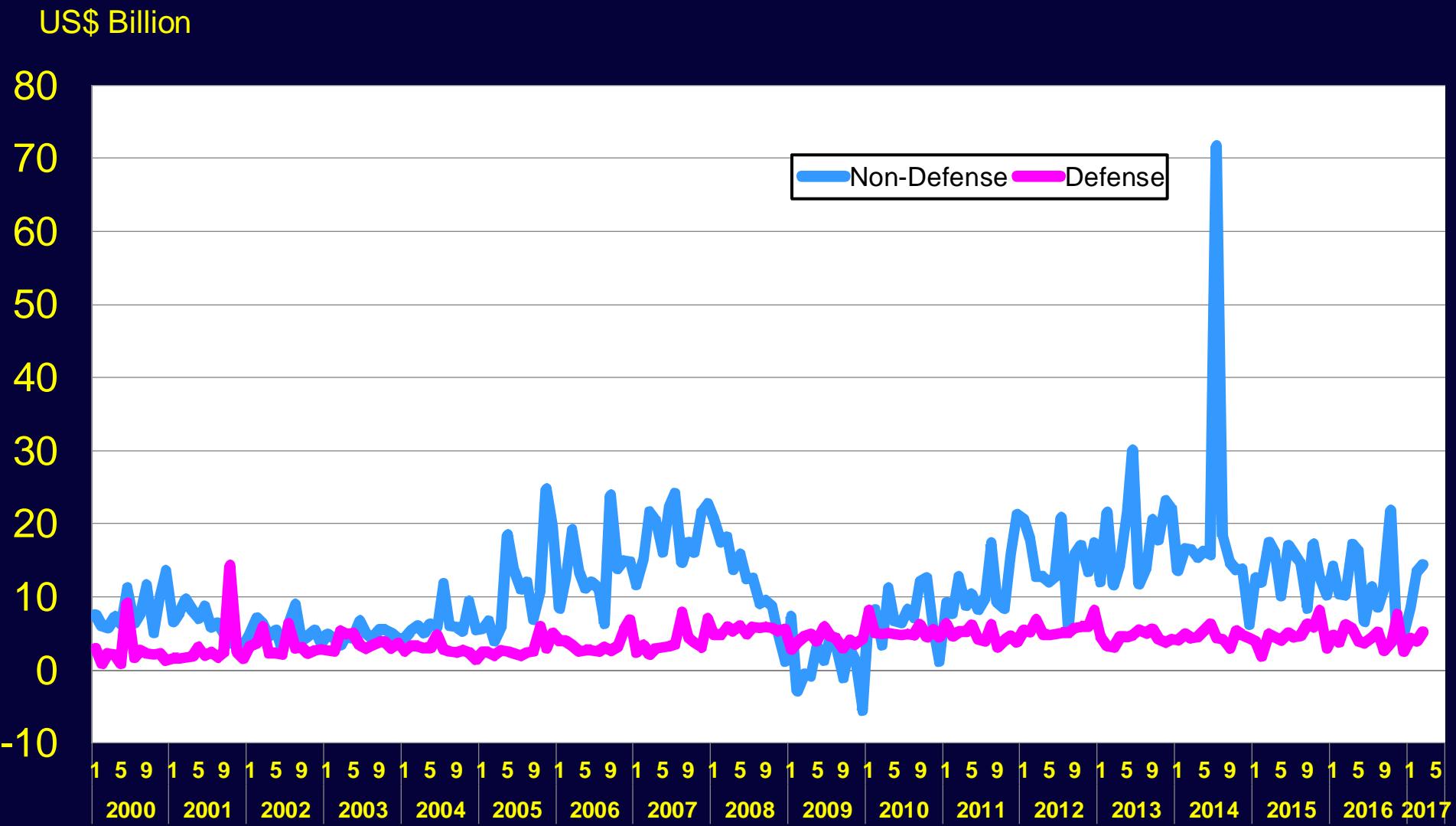


Chart 21

1 U.S. Military Electronics Orders & Shipments

Defense Communication & Search & Navigation Equipment

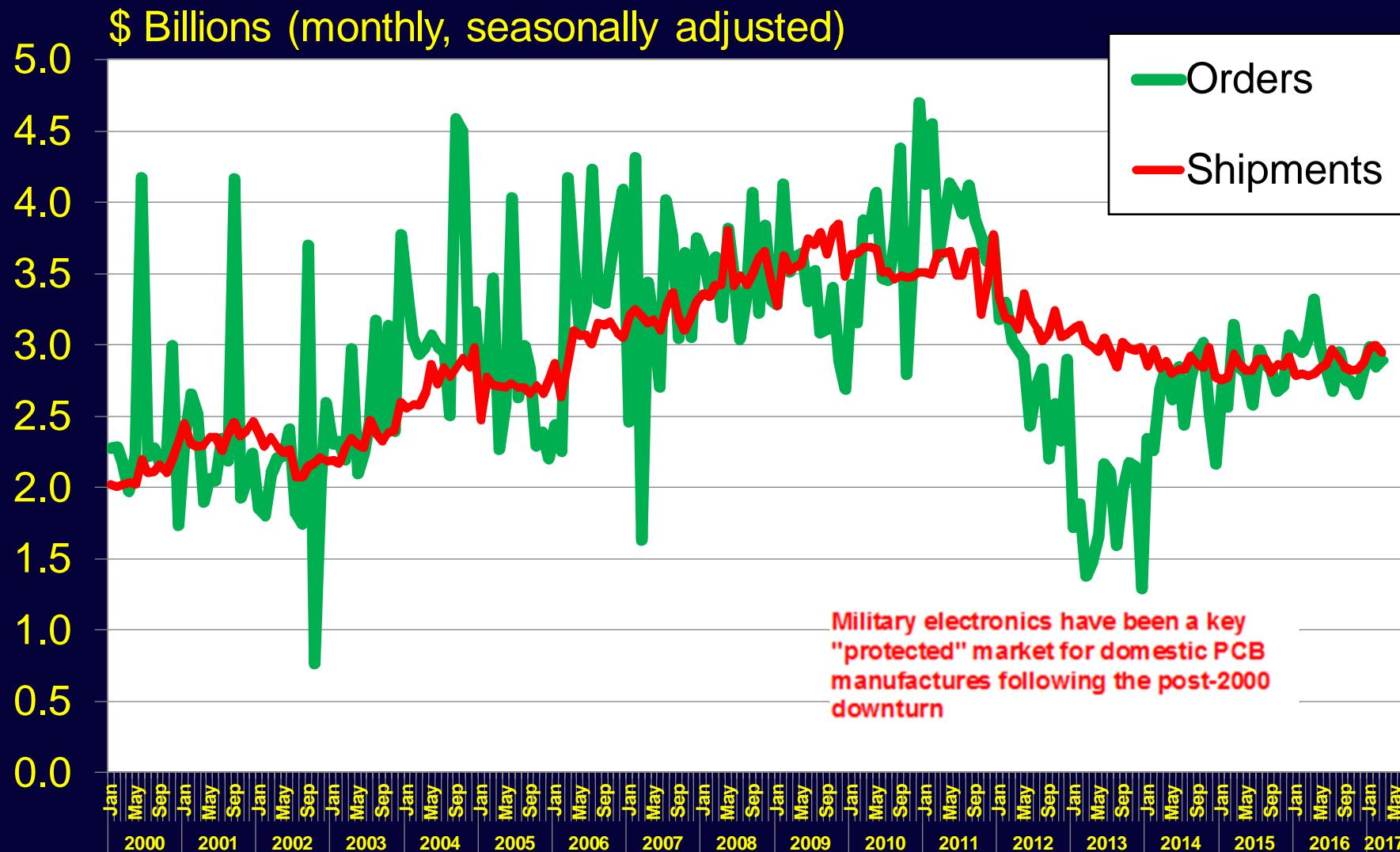


Chart 22

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

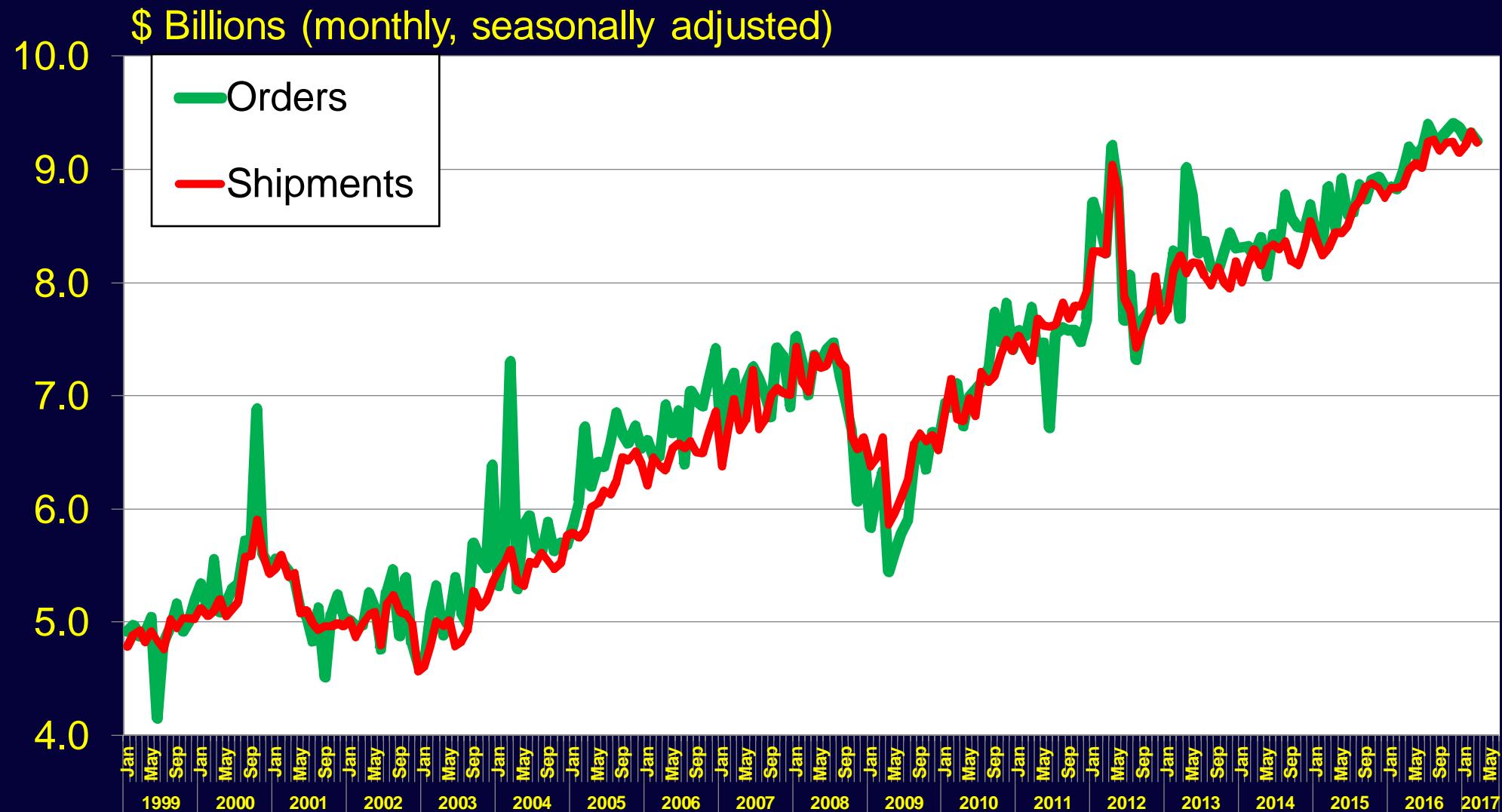


Chart 23

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

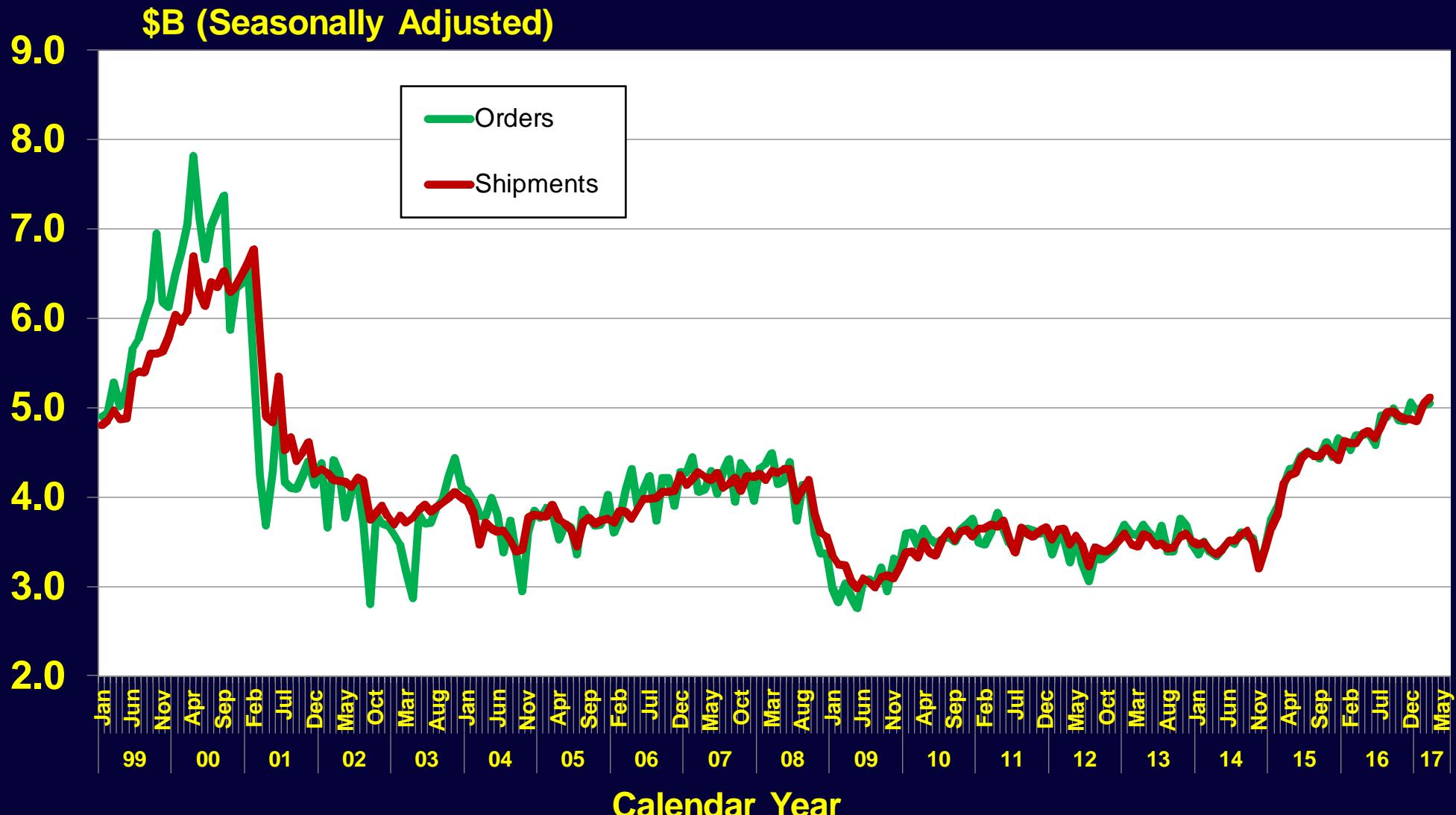


Chart 24

U.S Electronic Supply Chain Shipment Growth 1Q'17 vs. 1Q'16

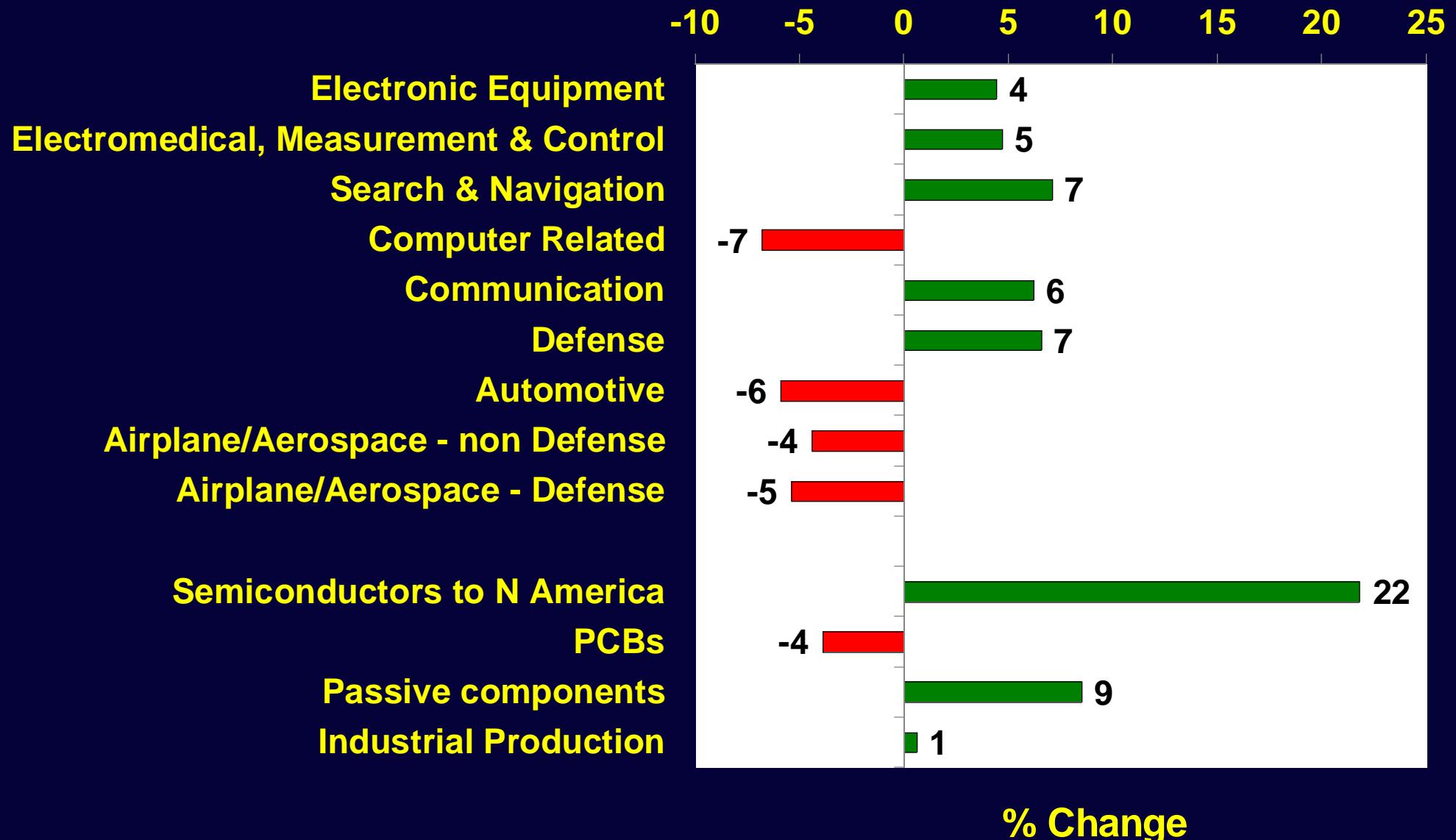
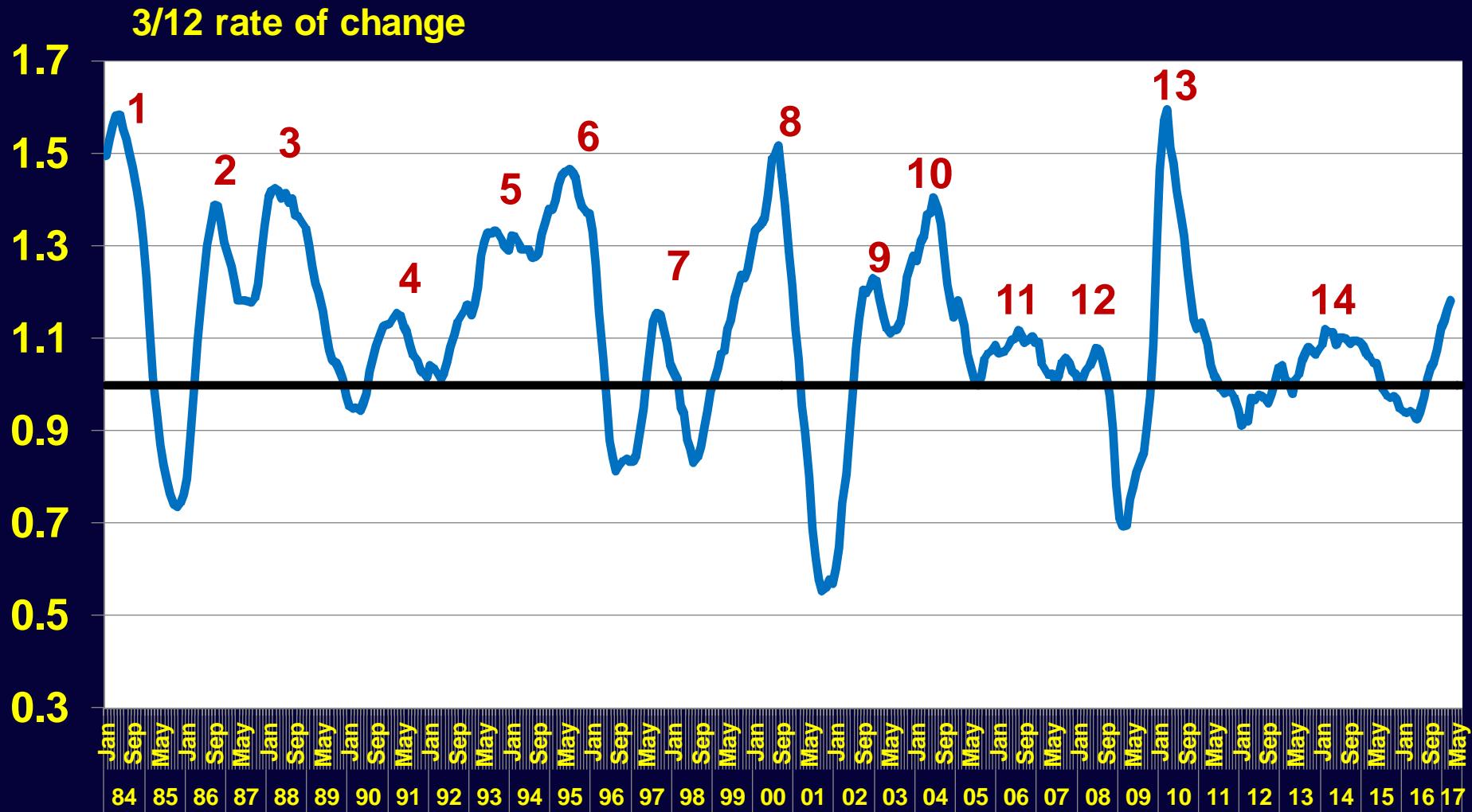


Chart 25

Global Semiconductor Shipments

3-Month Growth Rates on \$ Basis



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

Chart 26

World Semiconductor Shipments

Monthly US\$

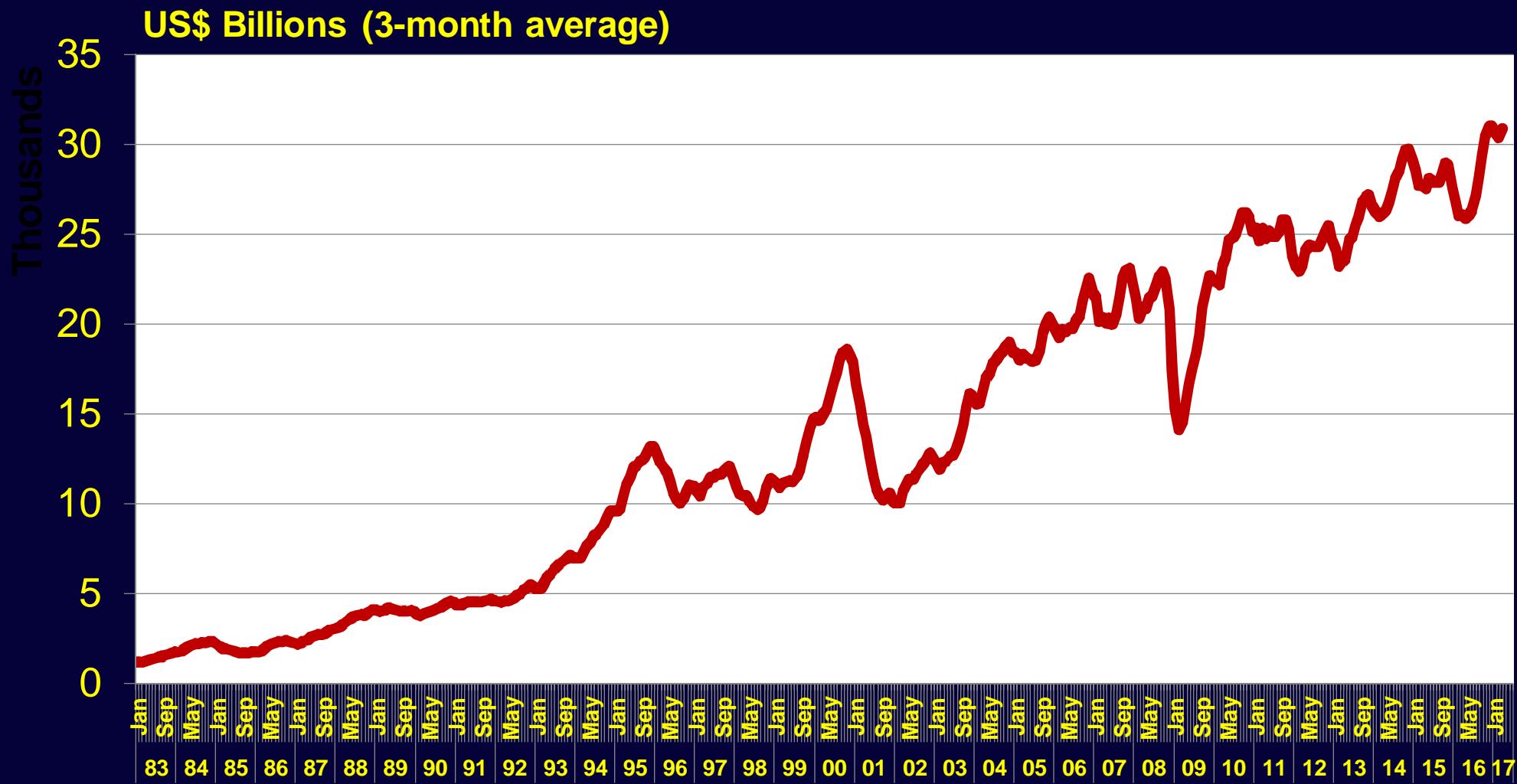


Chart 27

CCG Semiconductor Leading Indicator vs. Global Semiconductor Shipments

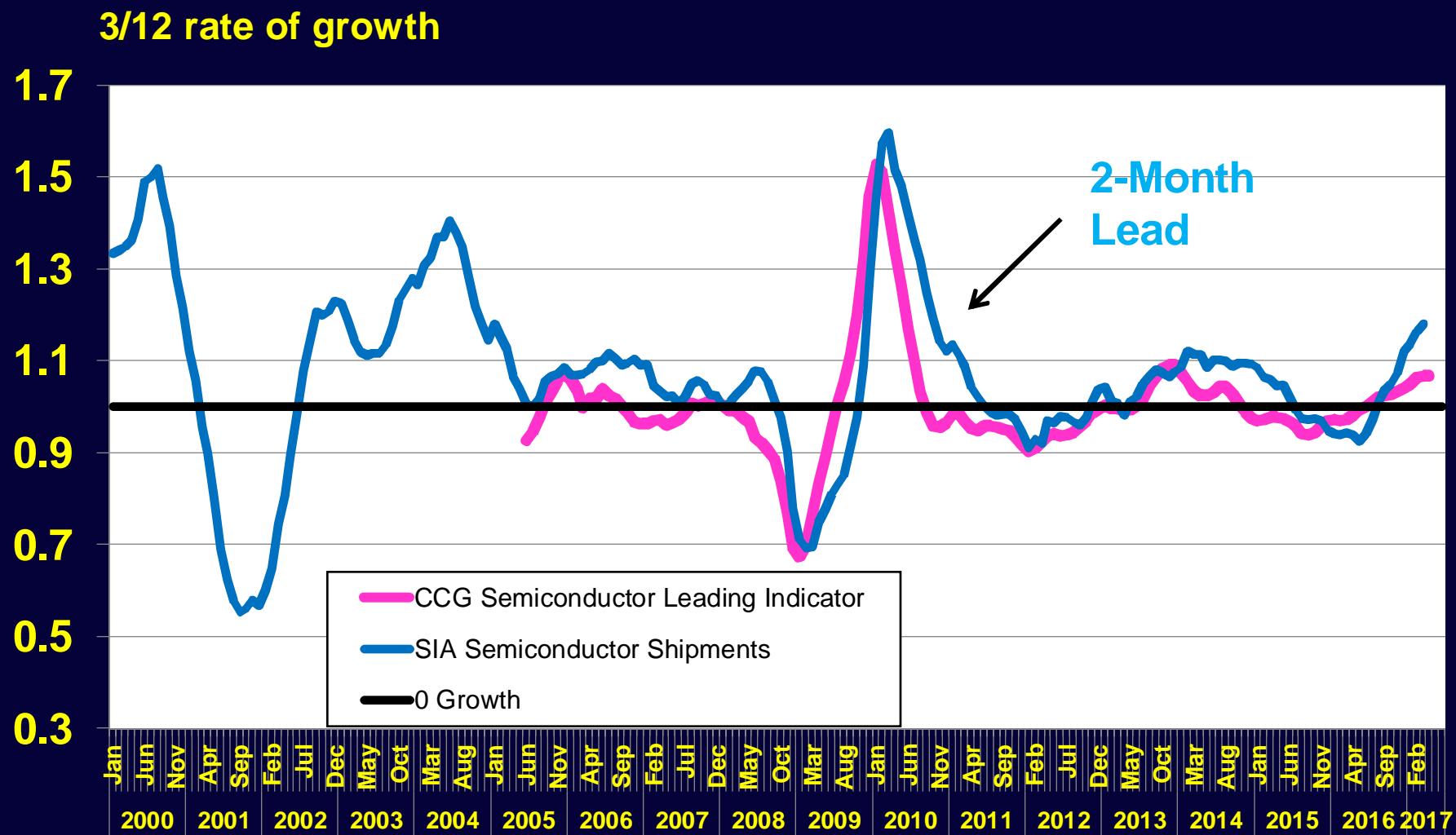


Chart 28

Total Semiconductor Shipments to an Area Monthly Shipments - Reporting Firms

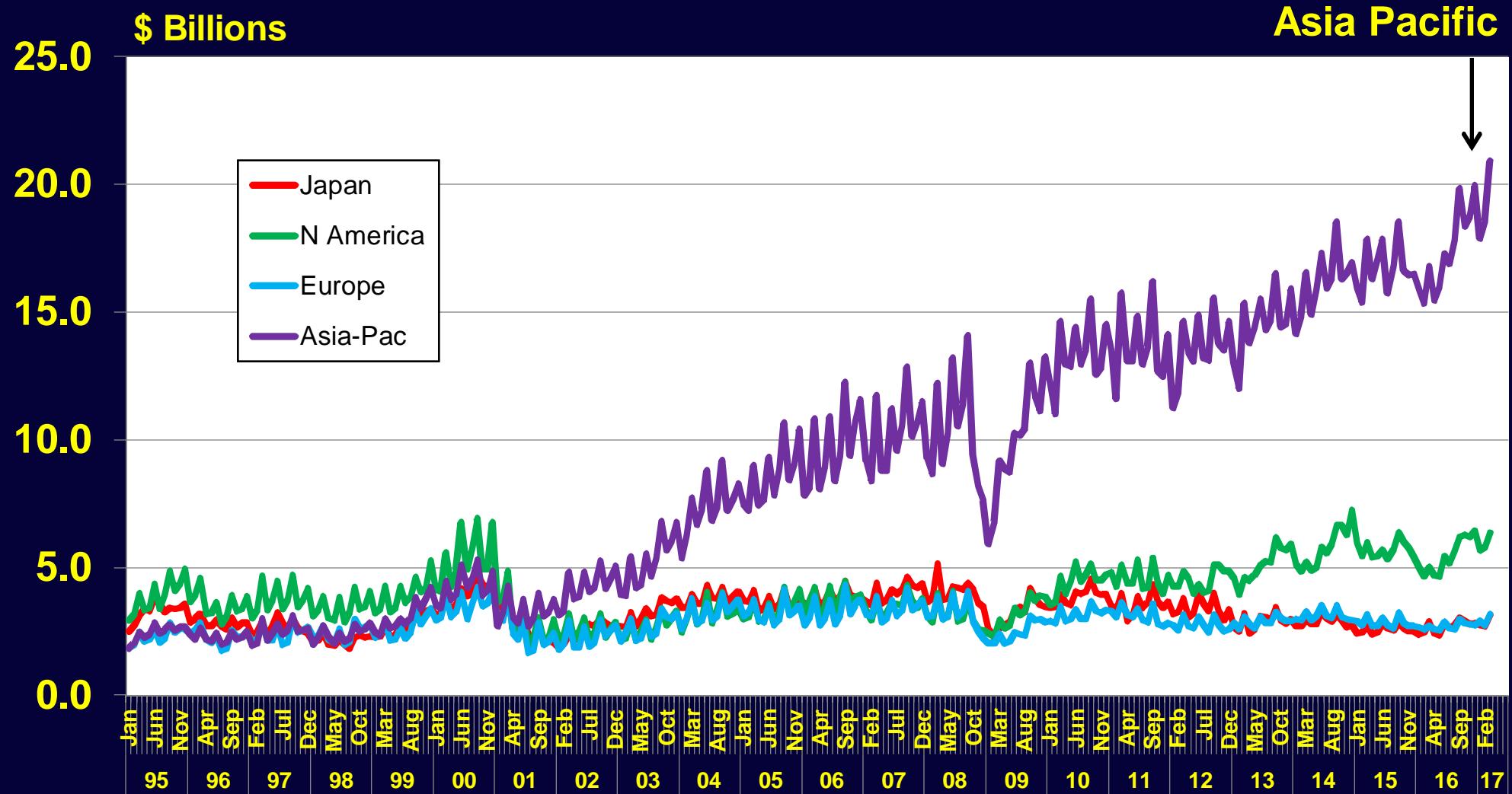


Chart 29

Monthly Semiconductor Shipments

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

| | <u>3/16</u> | <u>3/17</u> | <u>% CH</u> |
|--------------------------|-------------|-------------|-------------|
| Americas | 4.89 | 5.96 | + 21.9% |
| Europe | 2.67 | 2.96 | + 11.1% |
| Japan | 2.59 | 2.87 | + 10.7% |
| China | 7.95 | 10.07 | + 26.7% |
| Asia Pacific / All Other | 8.05 | 9.02 | +11.9% |
| Total | 26.15 | 30.88 | + 18.1% |

Chart 30

Rigid & Flexible PCB Book/Bill N. America

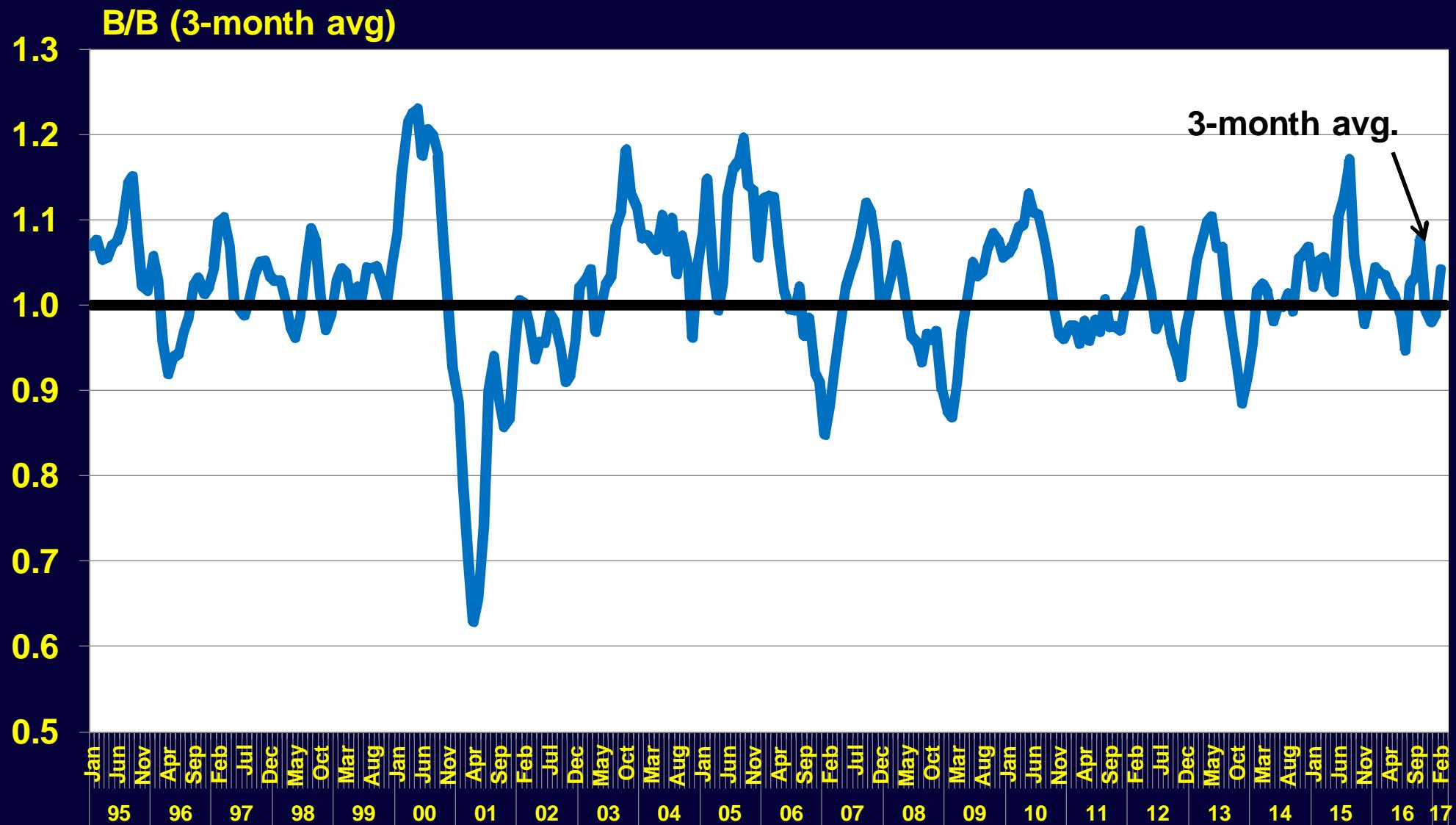
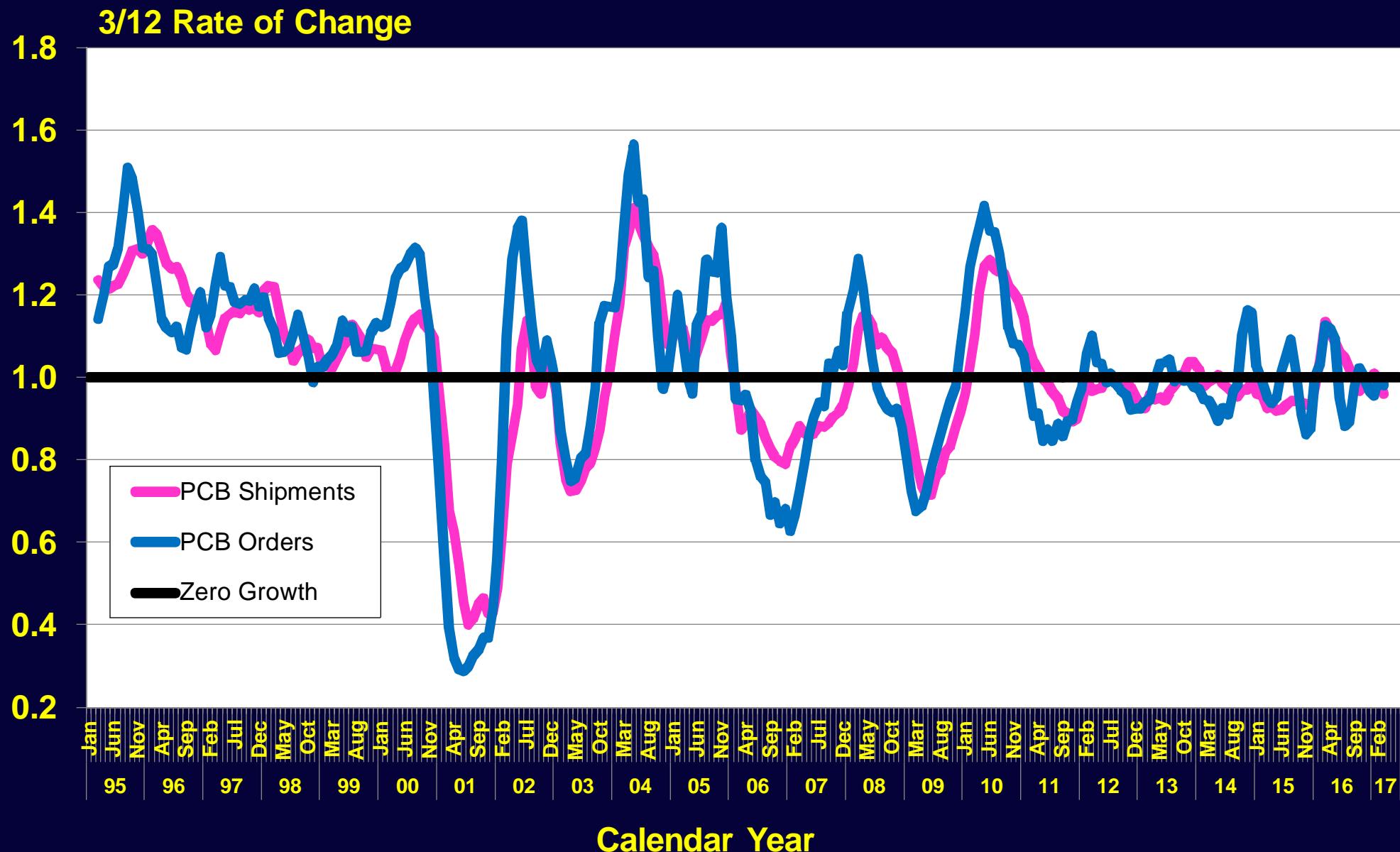


Chart 31

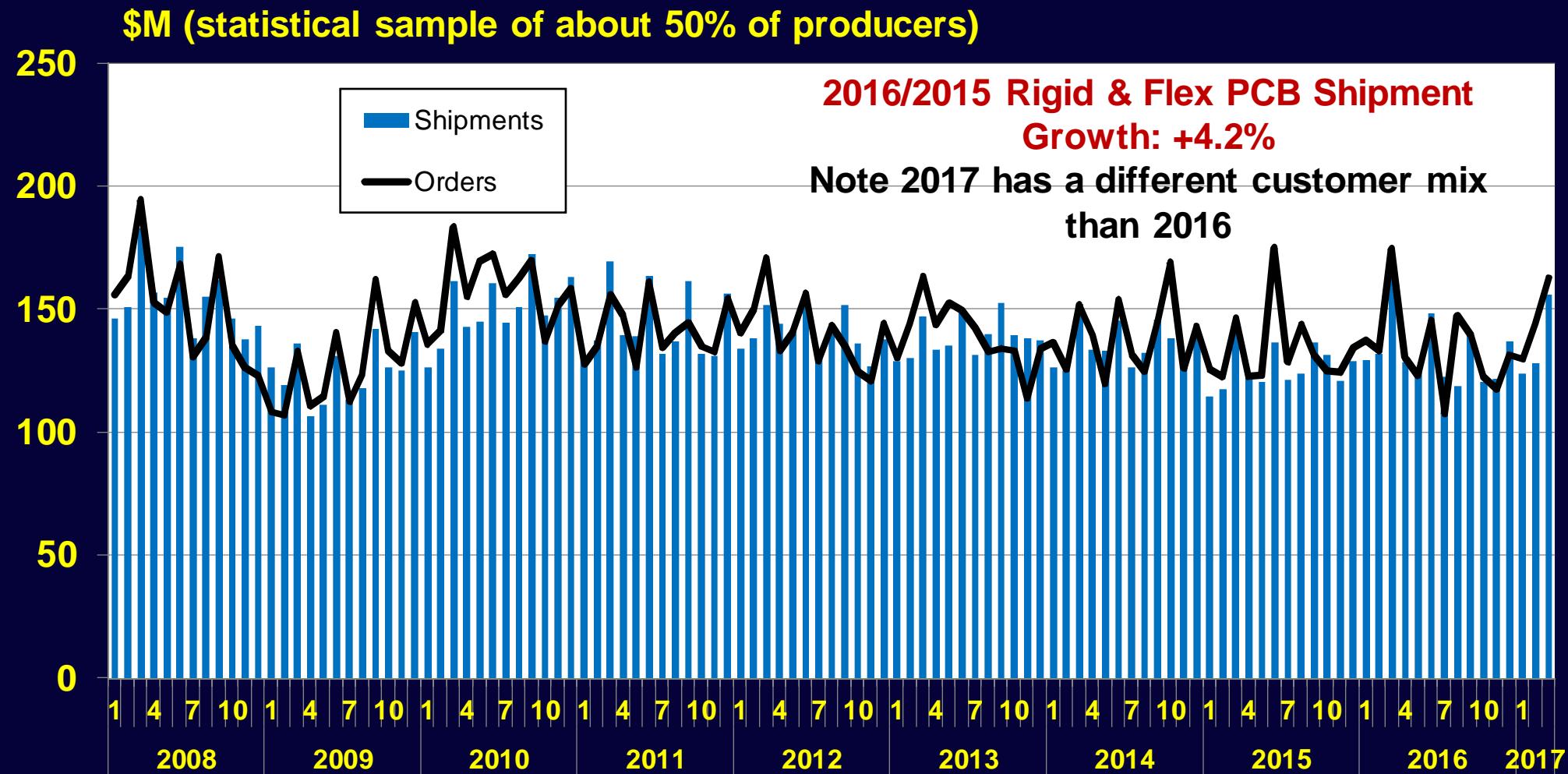
N. America Rigid & Flexible PCB Orders & Shipments



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

Chart 32

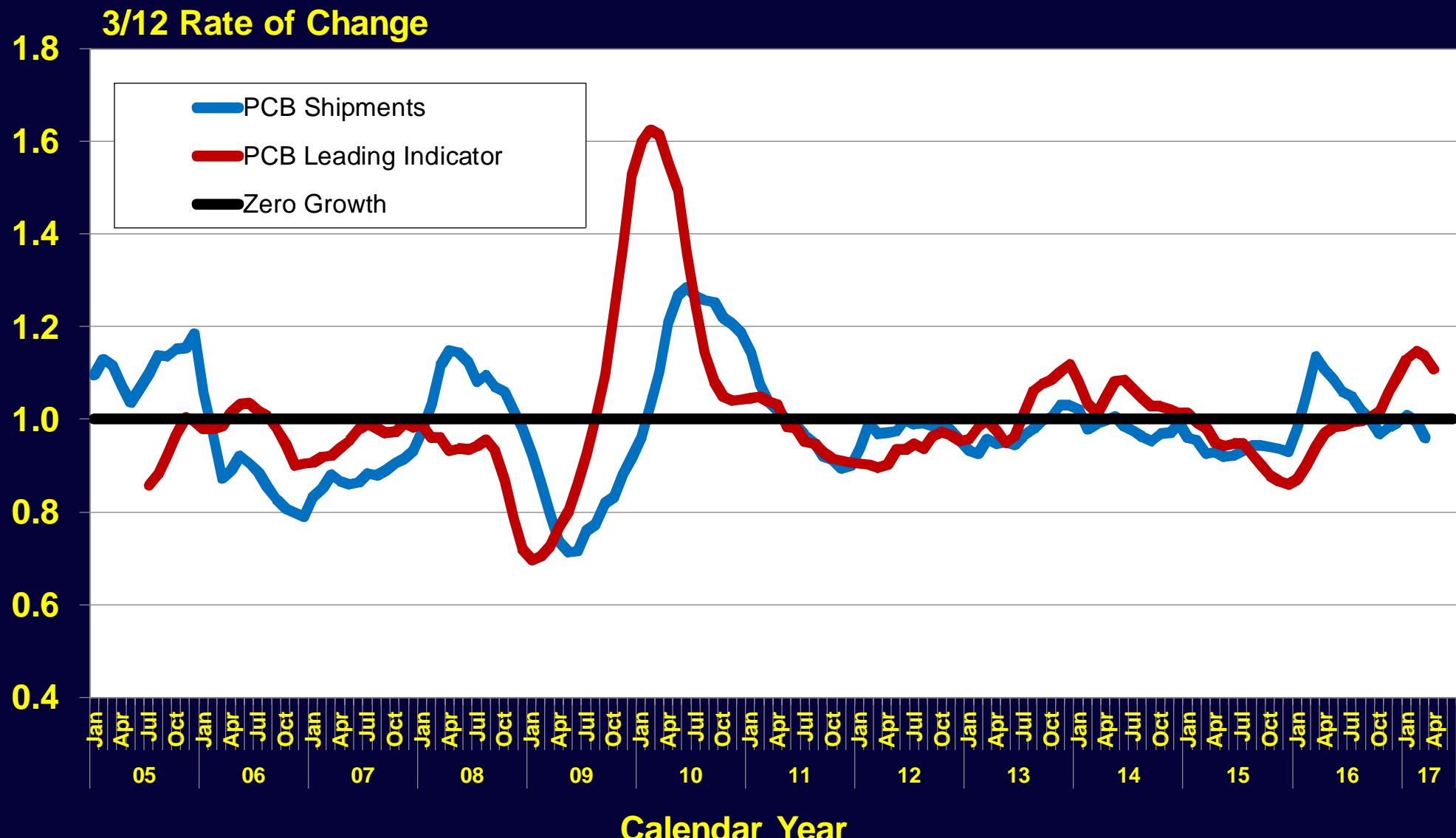
N American Rigid & Flexible PCB Shipments & Orders



Note: IPC survey captures "market" not domestic production. About 15% of the above represents imported boards resold by N American PCB producers in survey.

Chart 33

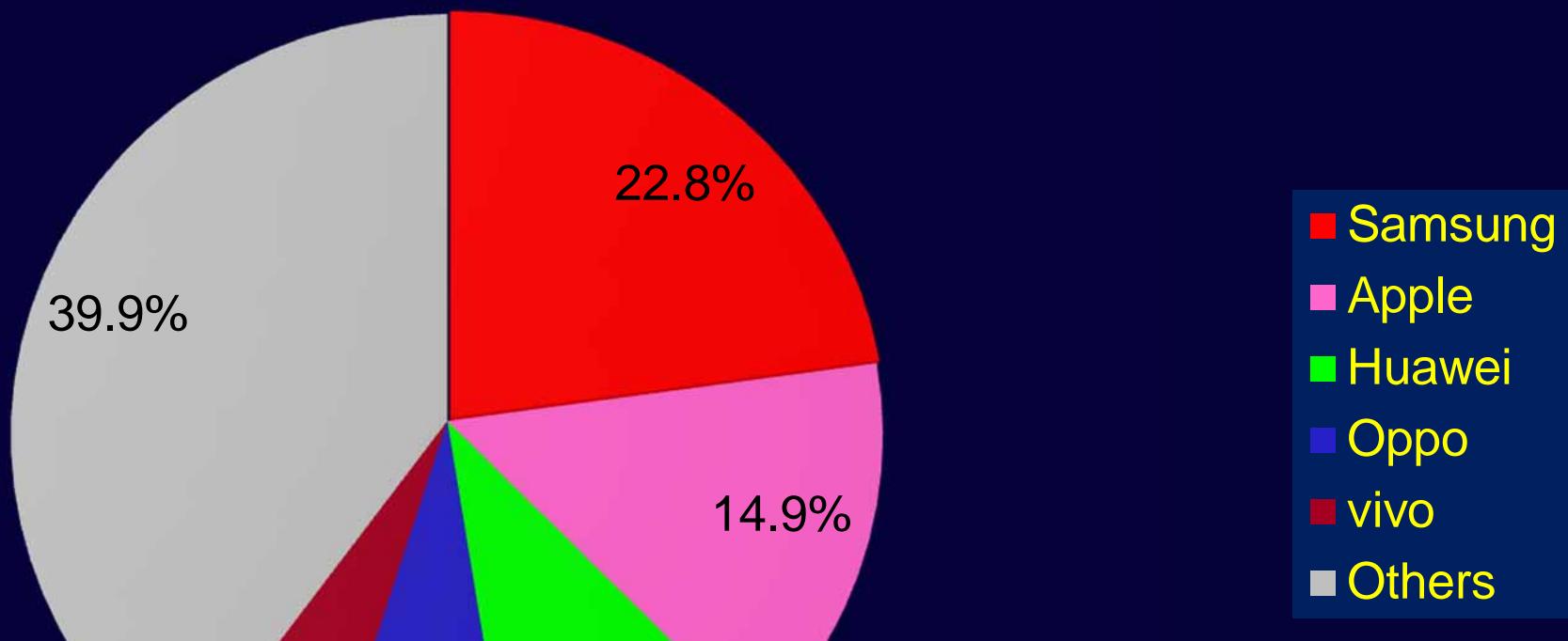
N America CCG PCB Leading Indicator vs. N America Rigid & Flex PCB Shipments



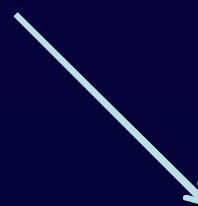
Source: Custer Consulting Group

Chart 34

World Smartphone Shipments 1Q'17



1Q'16
333 M



1Q'17 TOTAL: 347 Units

Chart 35

Smartphones World Top Vendors

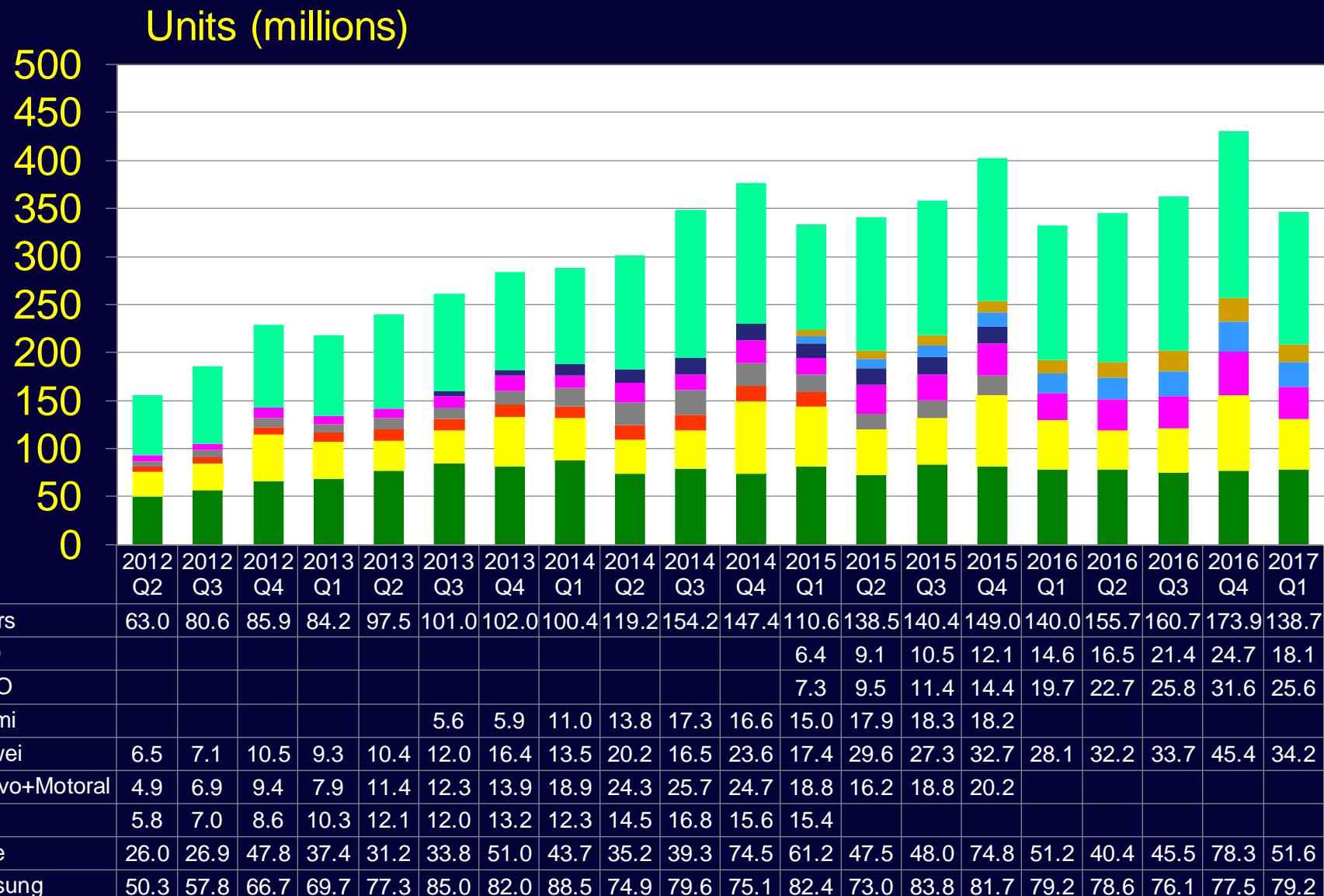


Chart 36

Global Tablet Shipments 1Q'17

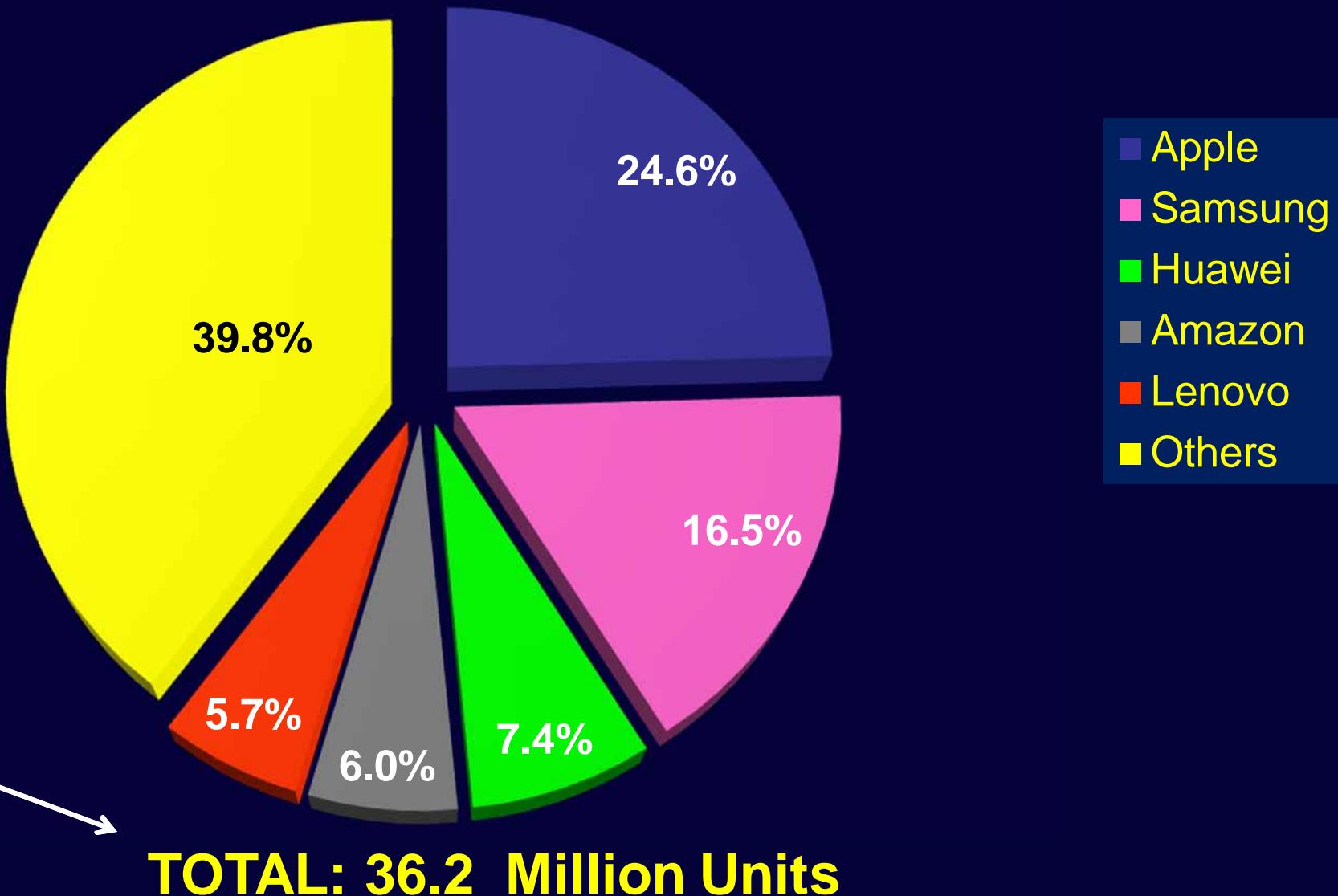


Chart 37

Media Tablets World Top 5 Vendors

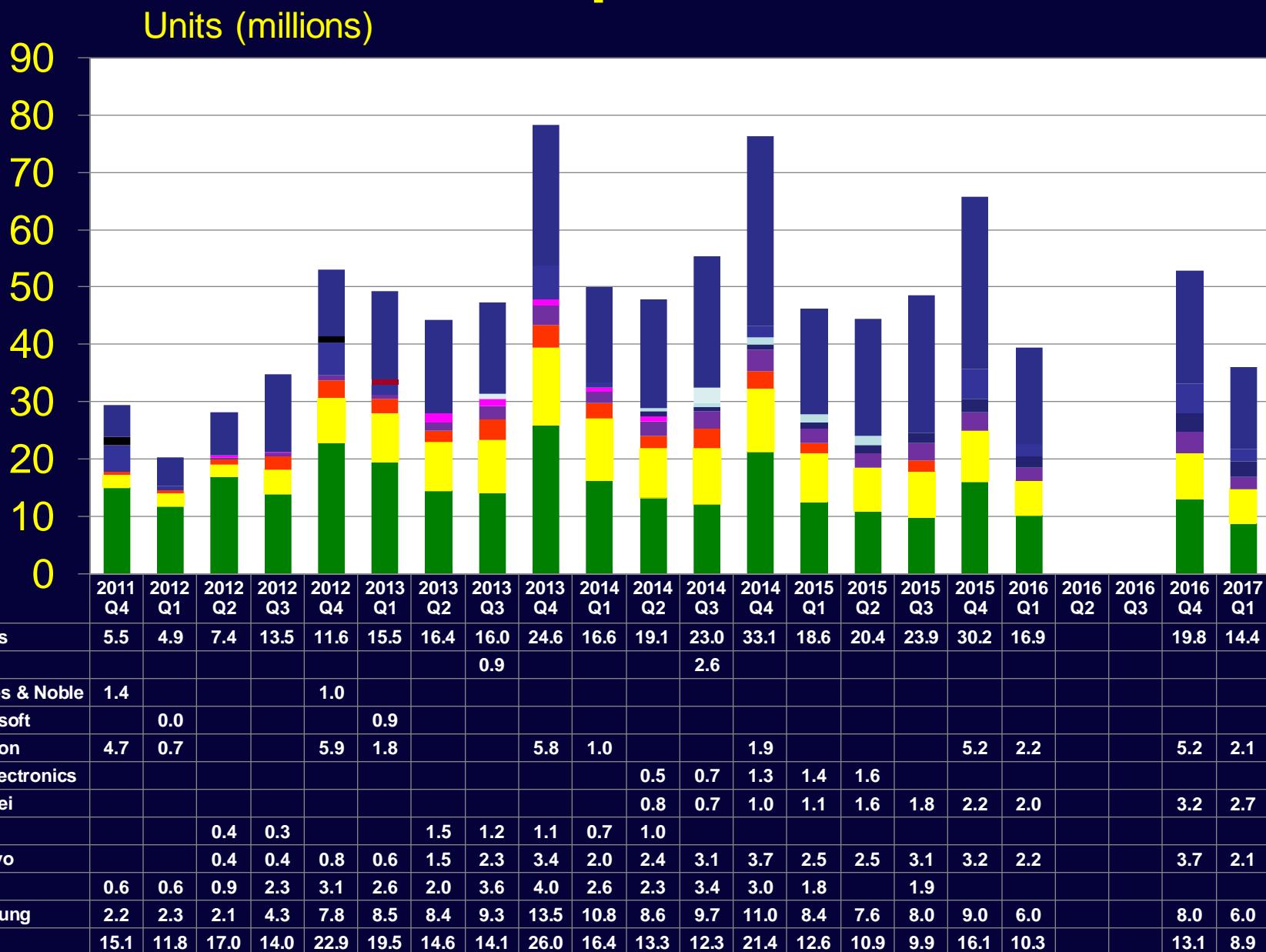


Chart 38

Top German EMS Providers 2015

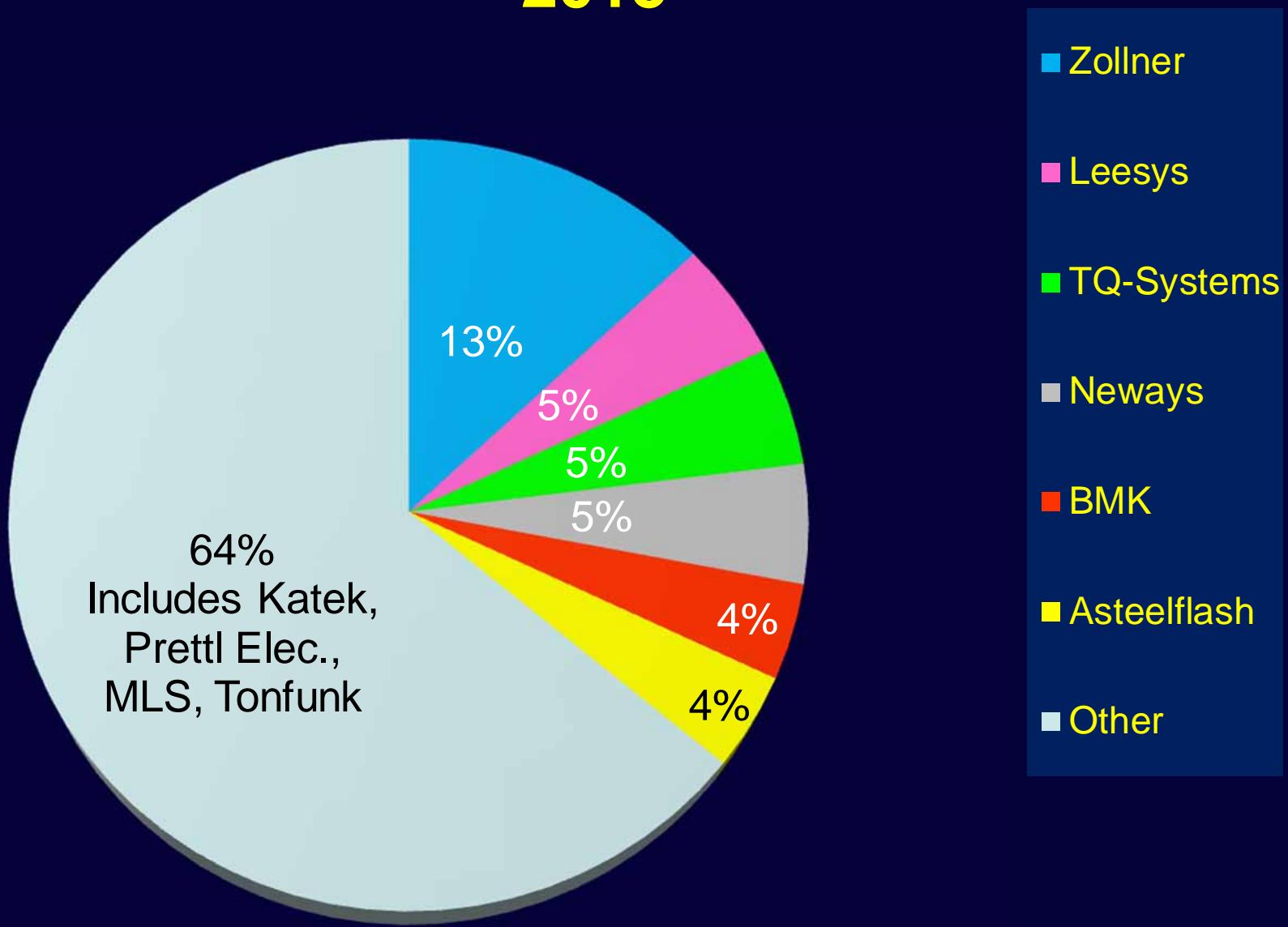
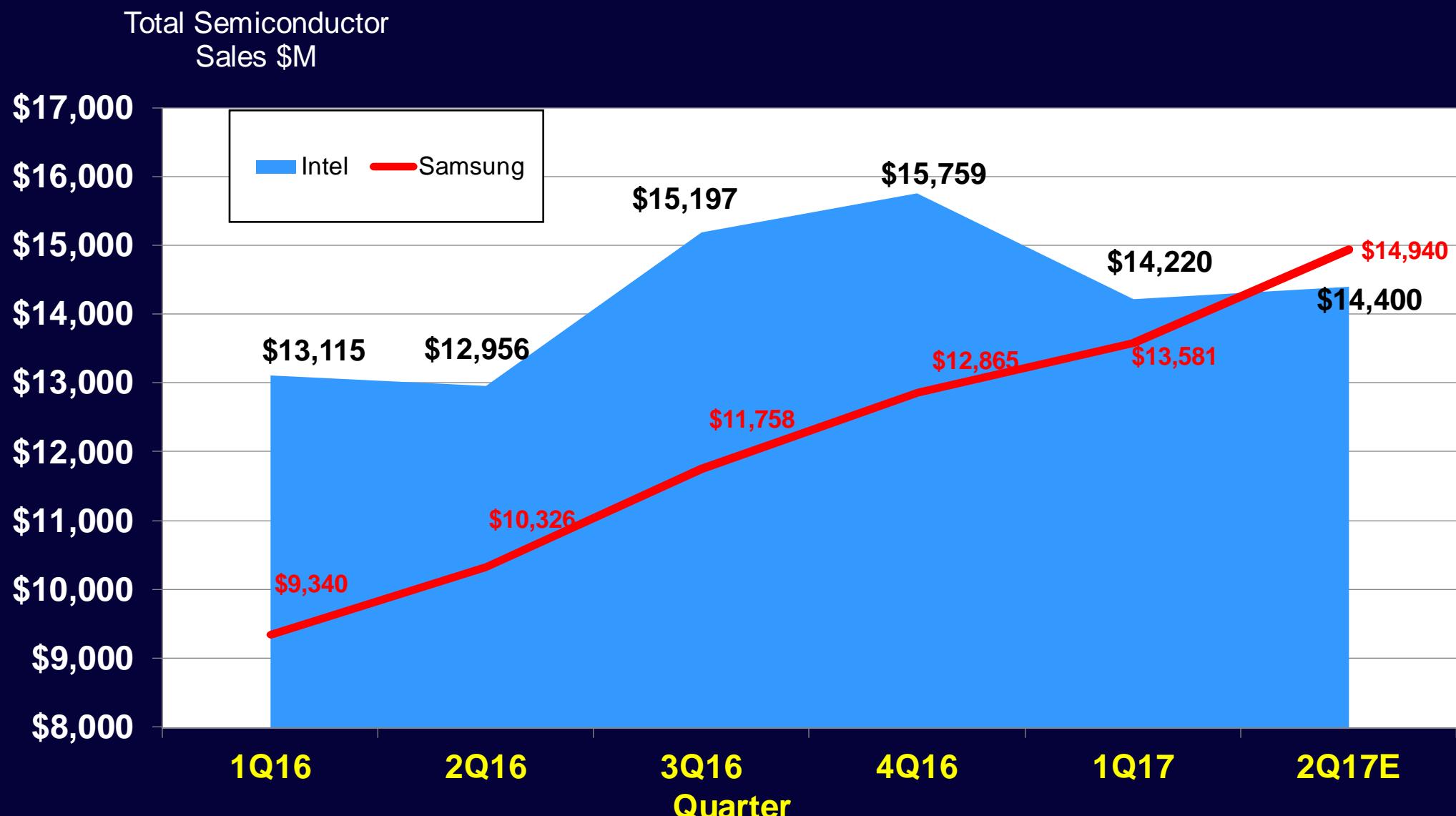


Chart 39

Samsung poised to become largest semiconductor supplier in 2Q'17



Leading MCU Suppliers (US\$ millions)

Chart 40

| <u>Rank</u> | <u>Maker</u> | <u>2016</u> | <u>2016/2015</u> |
|-------------|-------------------|-------------|------------------|
| 1 | NXP* | 2,914 | 116% |
| 2 | Renesas | 2,458 | -4% |
| 3 | Microchip** | 2,027 | 50% |
| 4 | Samsung | 1,866 | -14% |
| 5 | ST | 1,573 | 4% |
| 6 | Infineon | 1,106 | 4% |
| 7 | Texas Instruments | 835 | 2% |
| 8 | Cypress*** | 622 | 15% |

* Acquired Freescale Dec 2015

** Purchased Atmel Apr 2016

*** Includes full year of sales from Spansion acquisition in Mar 2015