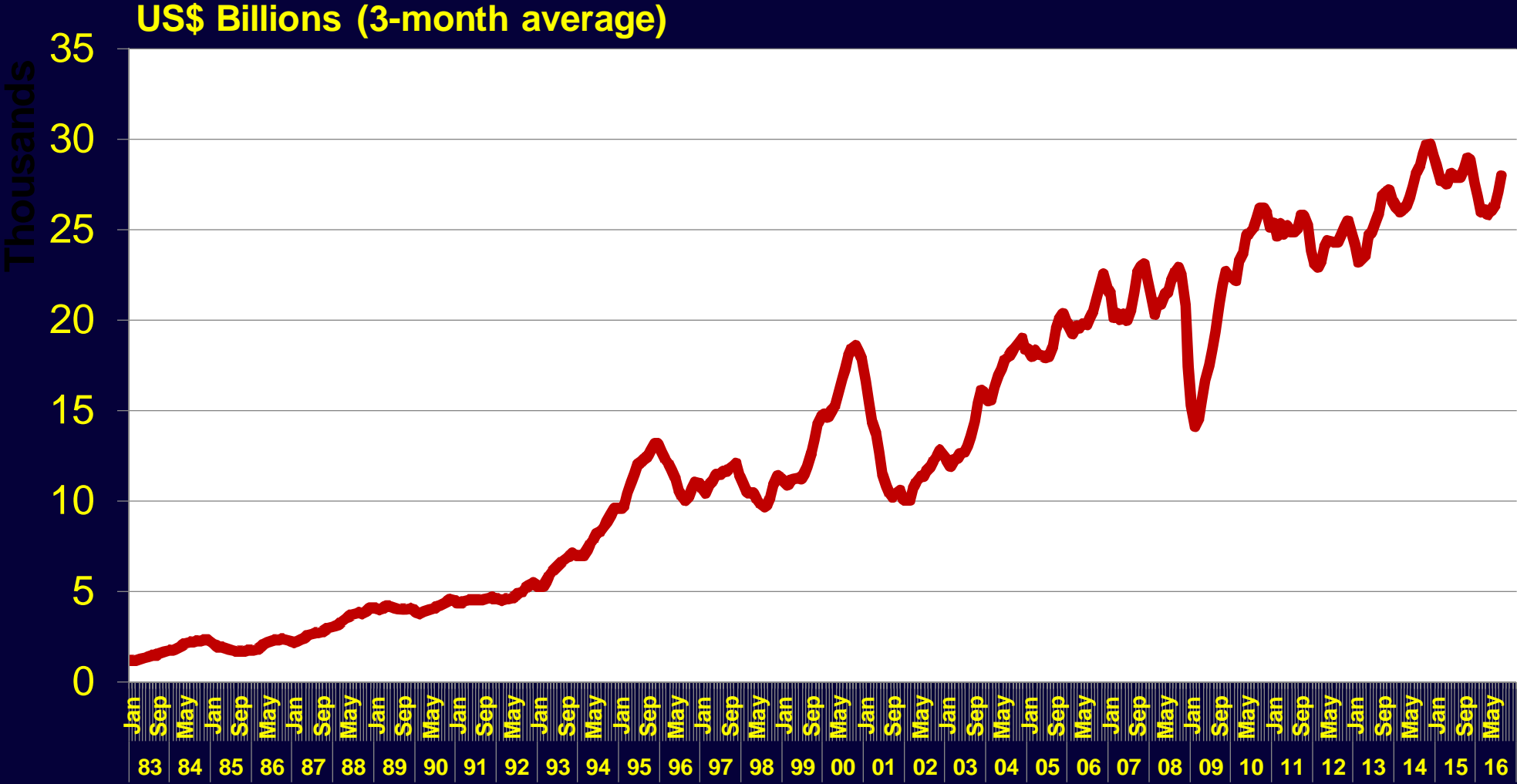


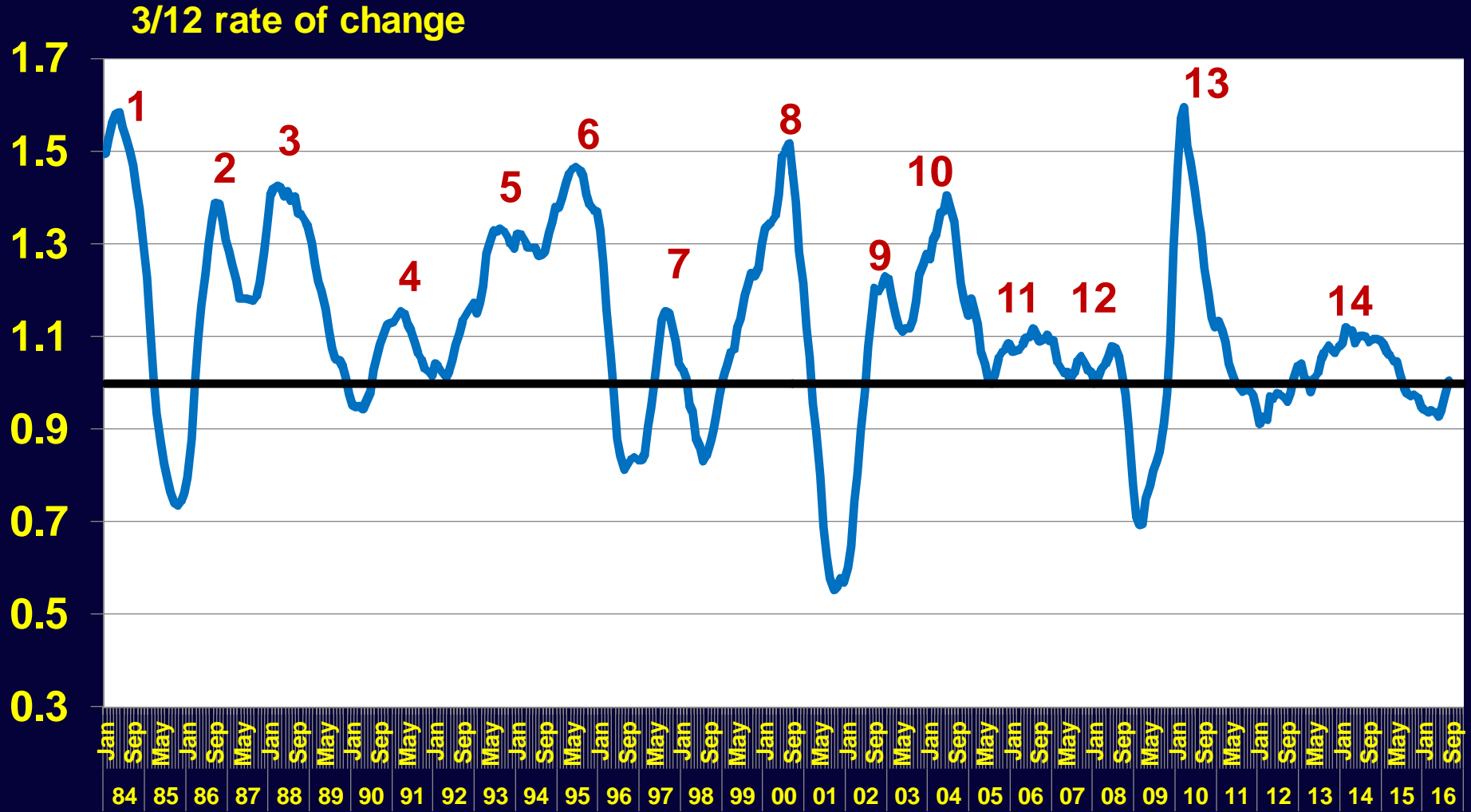
# World Semiconductor Shipments

## Monthly US\$



# Global Semiconductor Shipments

## 3-Month Growth Rates on \$ Basis



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

Chart 3

# CCG Semiconductor Leading Indicator vs. Global Semiconductor Shipments

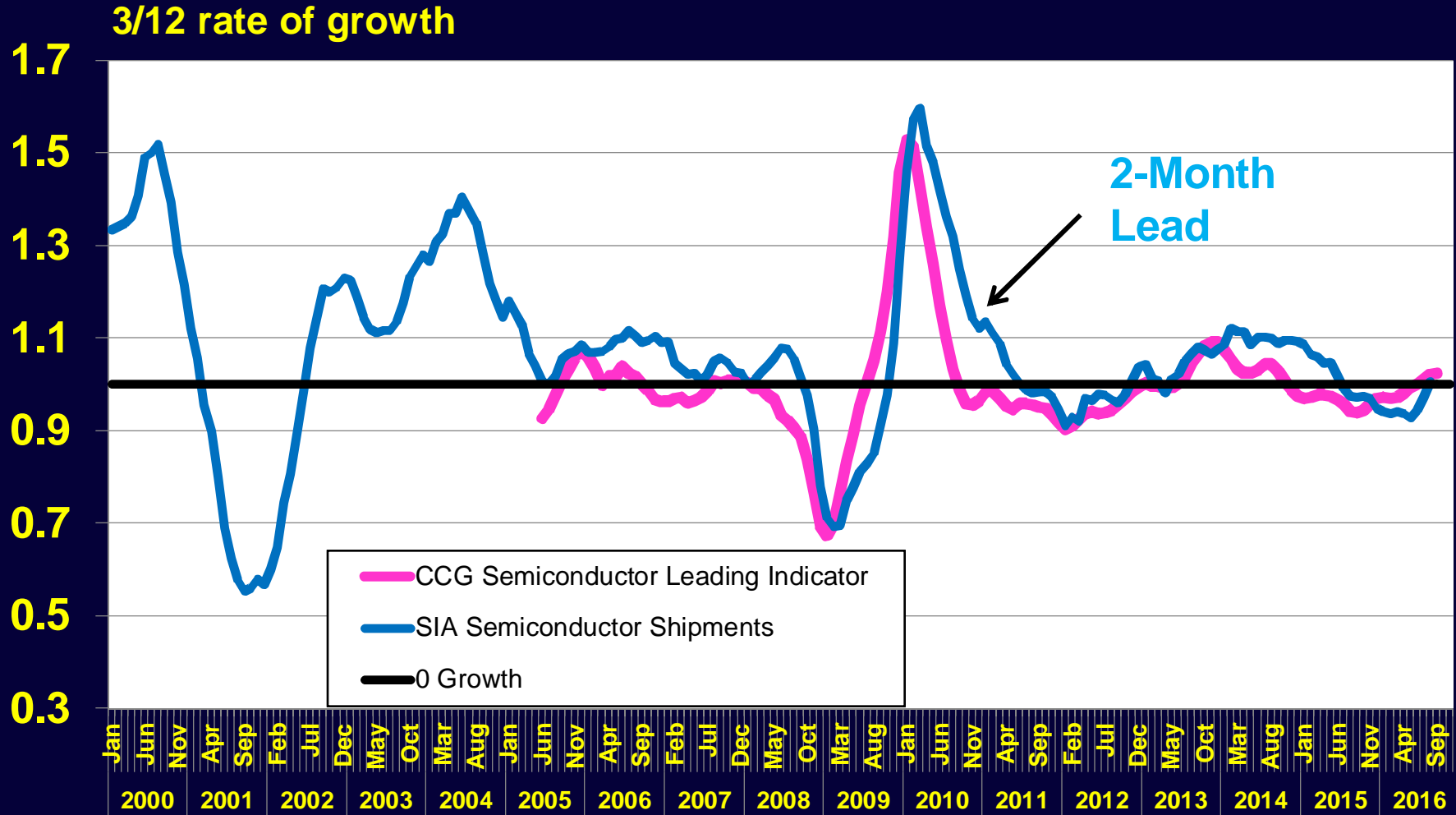


Chart 4

# Total Semiconductor Shipments to an Area

## Monthly Shipments - Reporting Firms

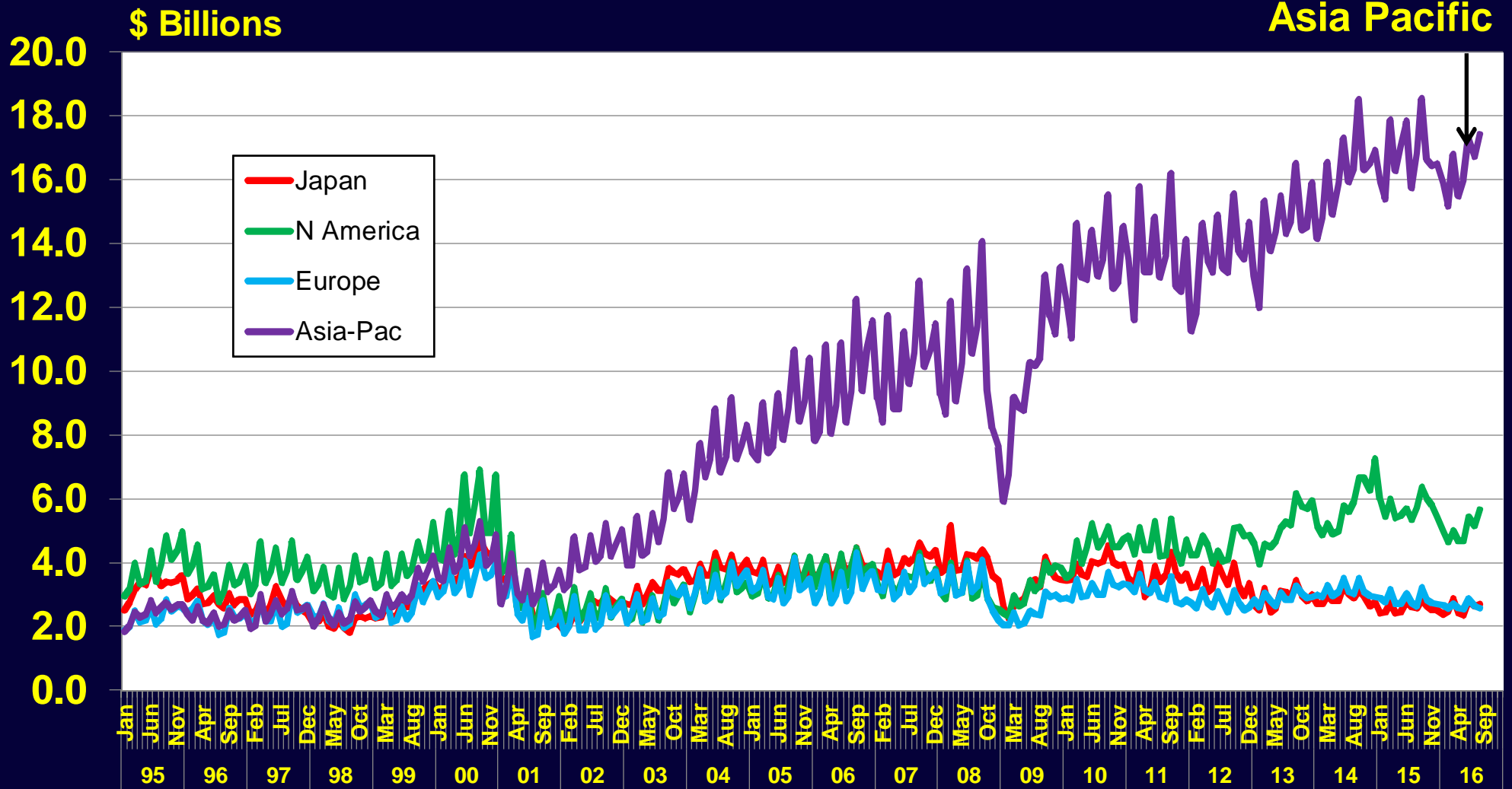


Chart 5

# Total Semiconductor Shipments to an Area

## Monthly Shipments - Reporting Firms

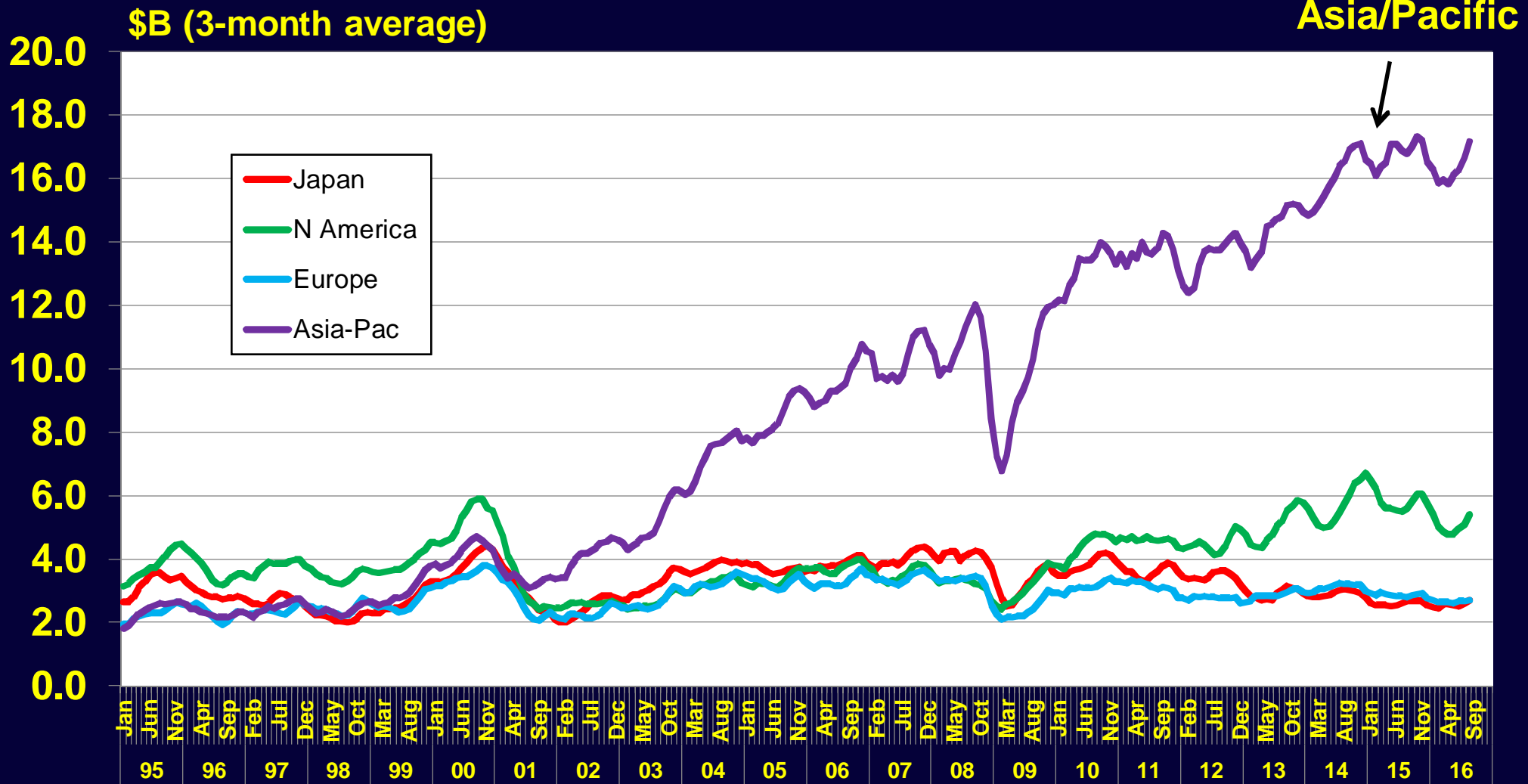


Chart 6

# N American Semiconductor Shipments

## Monthly & 3-Month Average Shipments

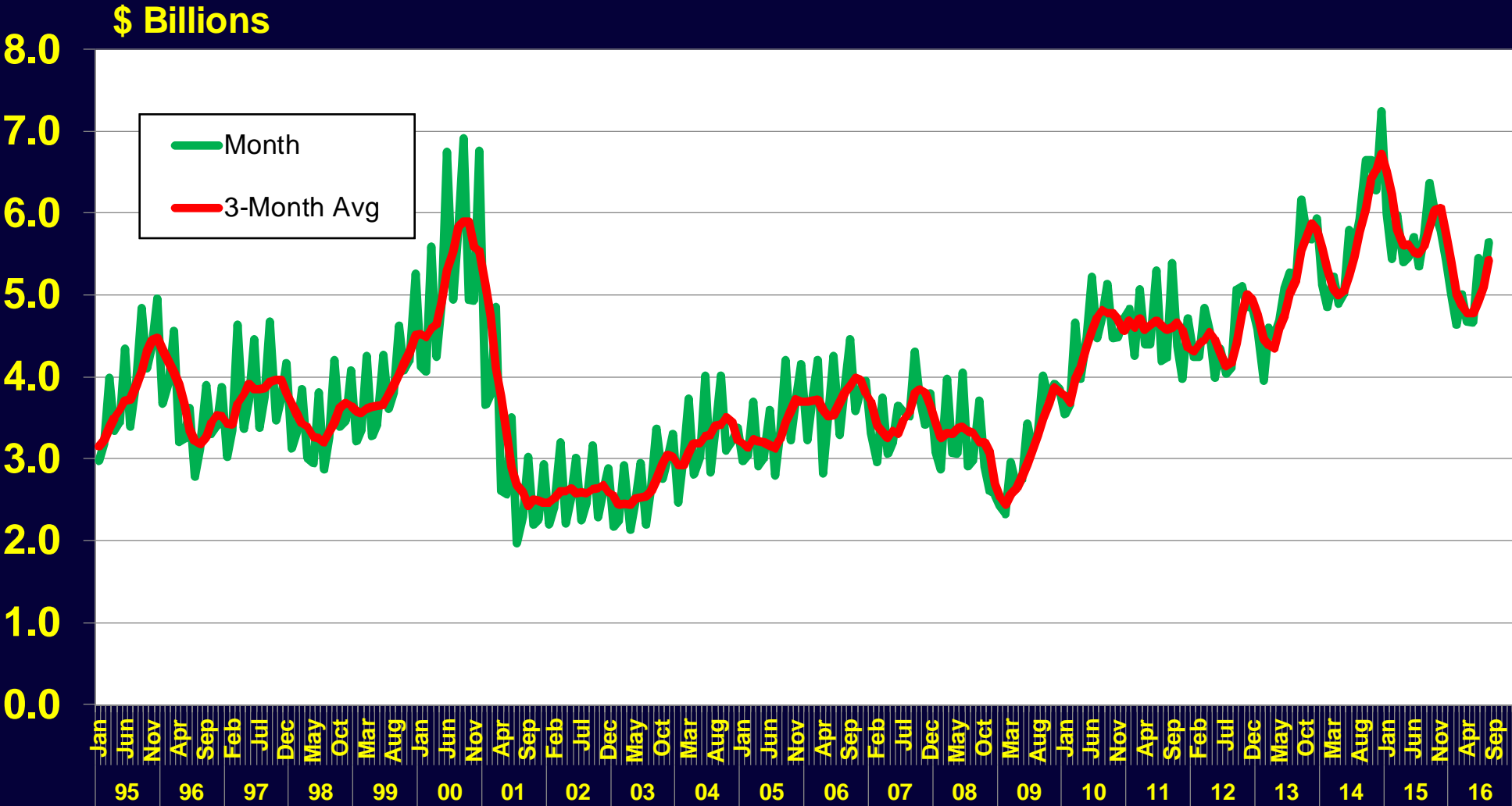


Chart 7

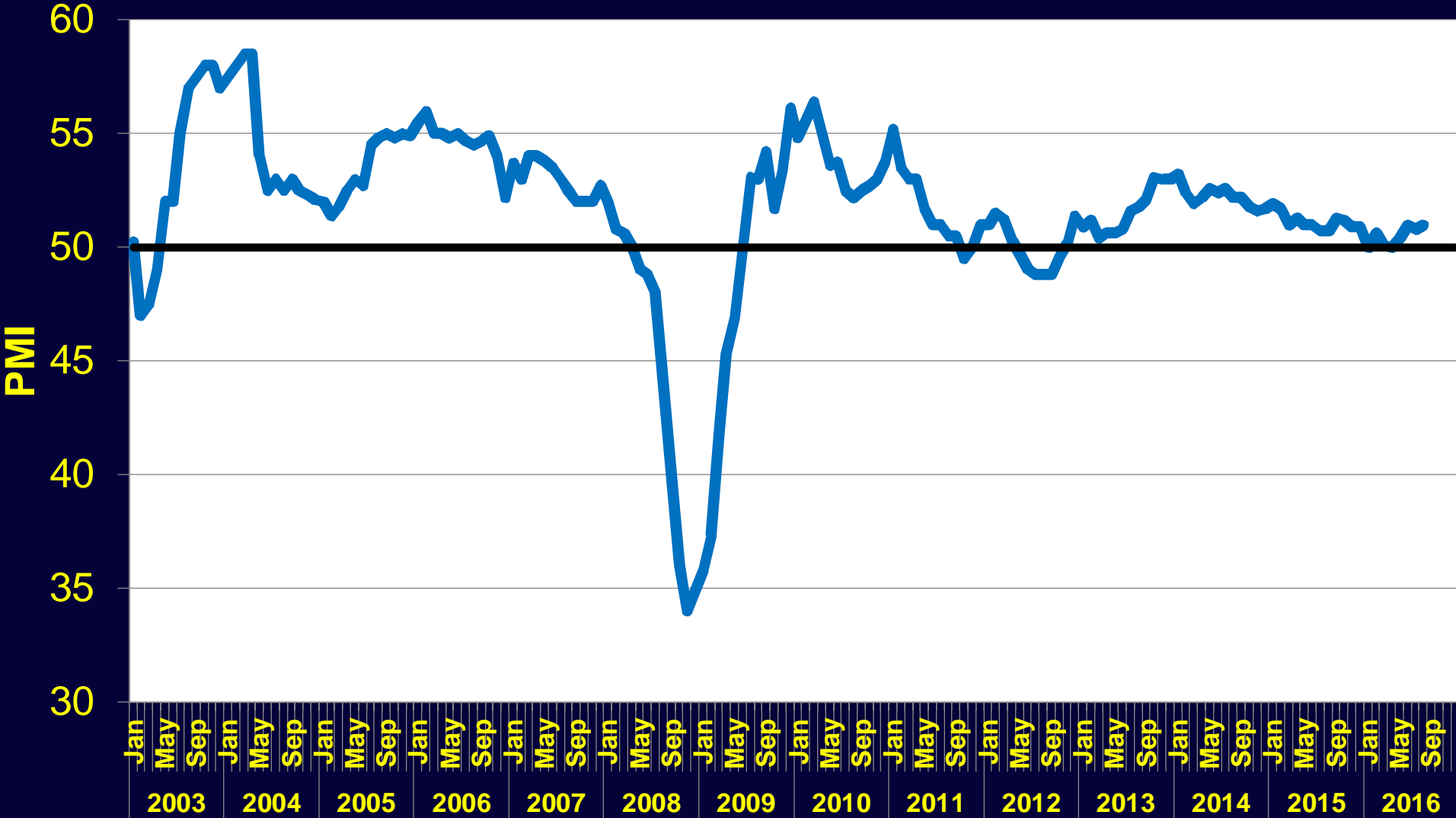
# Monthly Semiconductor Shipments \$ Billions (3-month avg in US\$)

	<u>8/15</u>	<u>8/16</u>	<u>% CH</u>
Americas	5.60	5.43	- 3.1%
Europe	2.81	2.71	- 3.3%
Japan	2.67	2.73	+ 2.2%
China	8.23	8.82	+ 7.1%
Asia Pacific / All Other	8.57	8.34	- 2.7%
Total	27.88	28.03	+ 0.5%

Chart 8

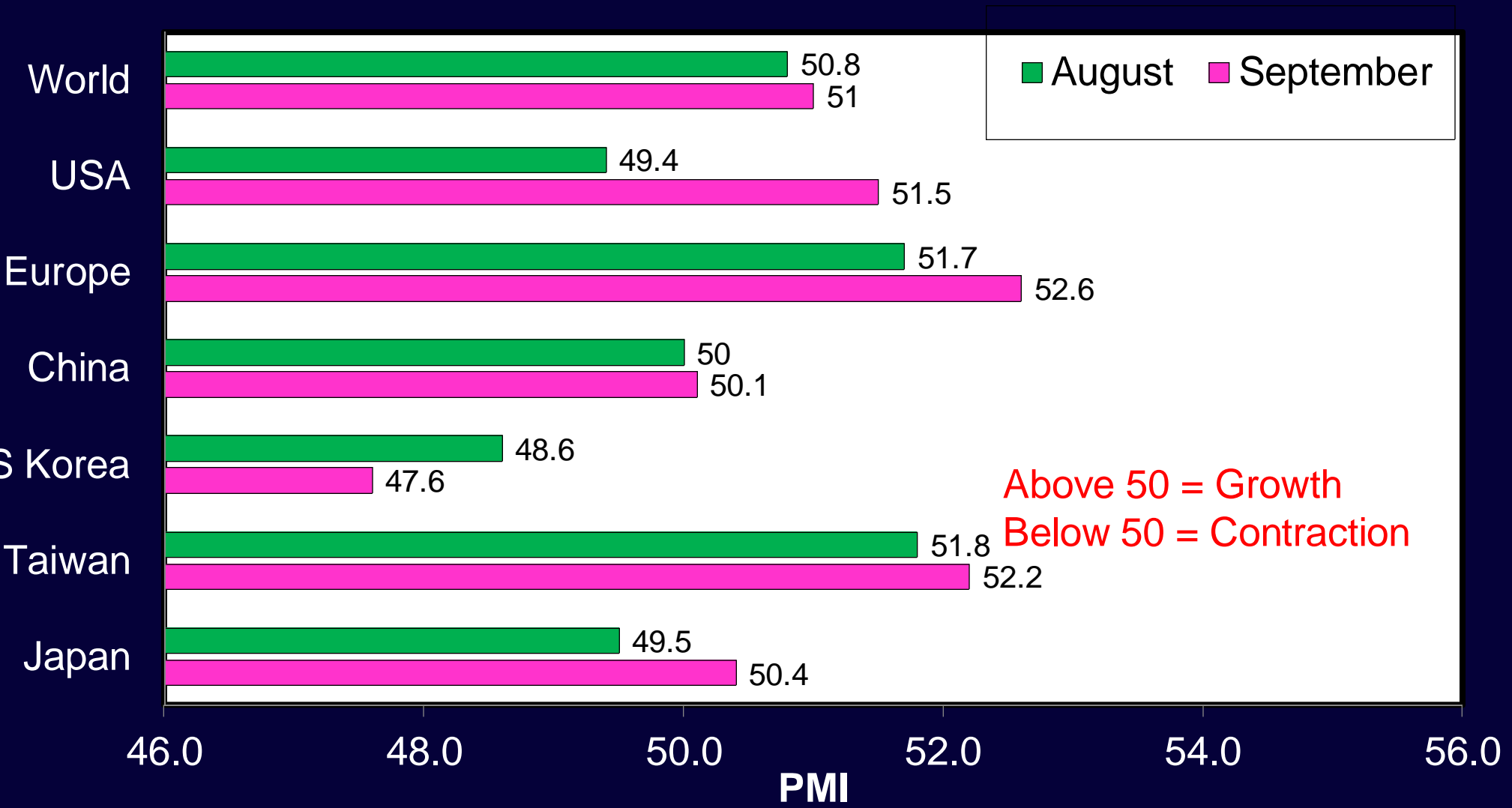
# Global "Purchasing Managers" Index

Diffusion Index, >50 = Growth



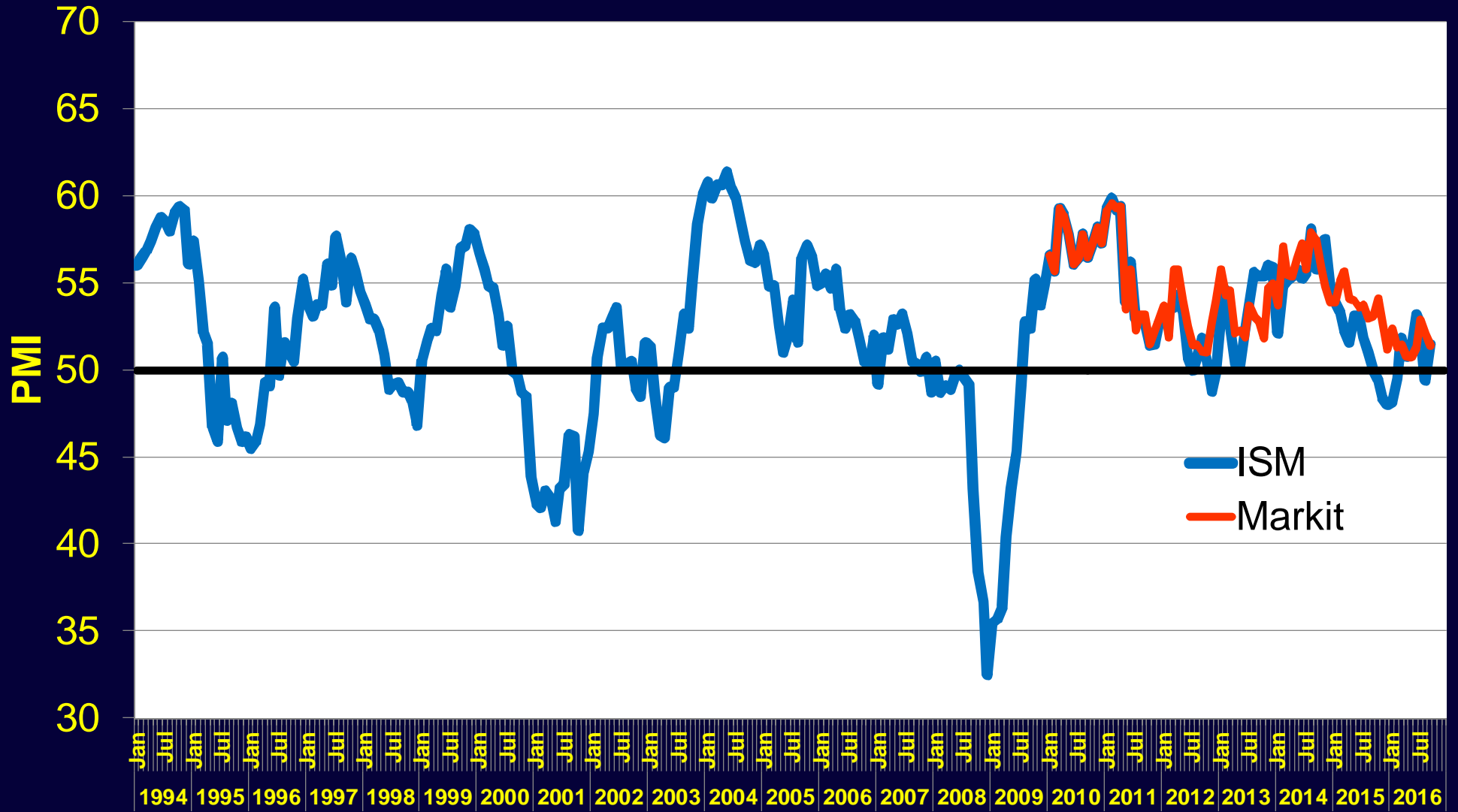


# Purchasing Managers' Indices August vs. July 2016



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

Diffusion Index, >50 = Growth



# Eurozone "Purchasing Managers" Index

Diffusion Index, >50 = Growth

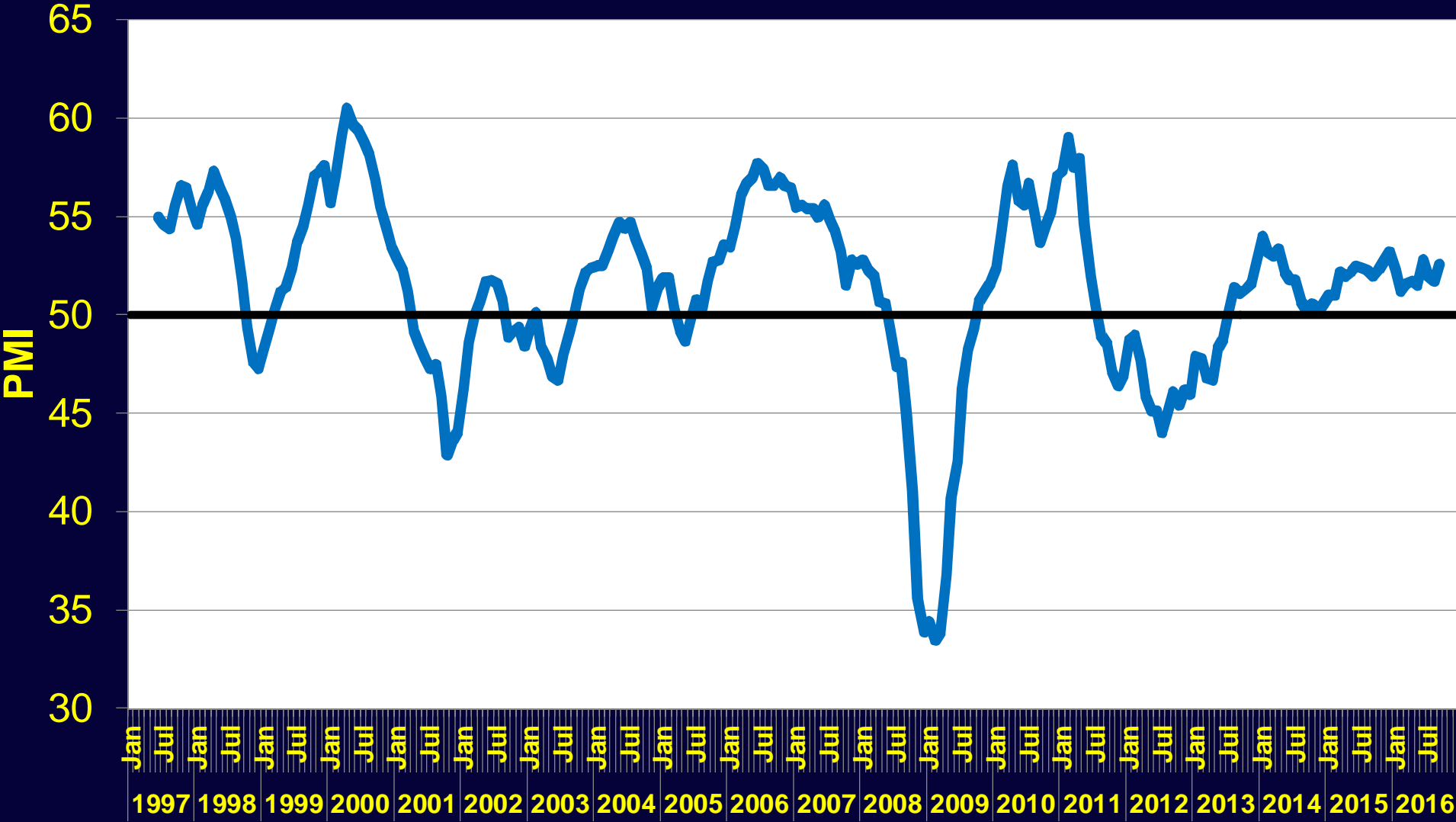


Chart 12

# European Purchasing Managers' Indices August vs. September 2016

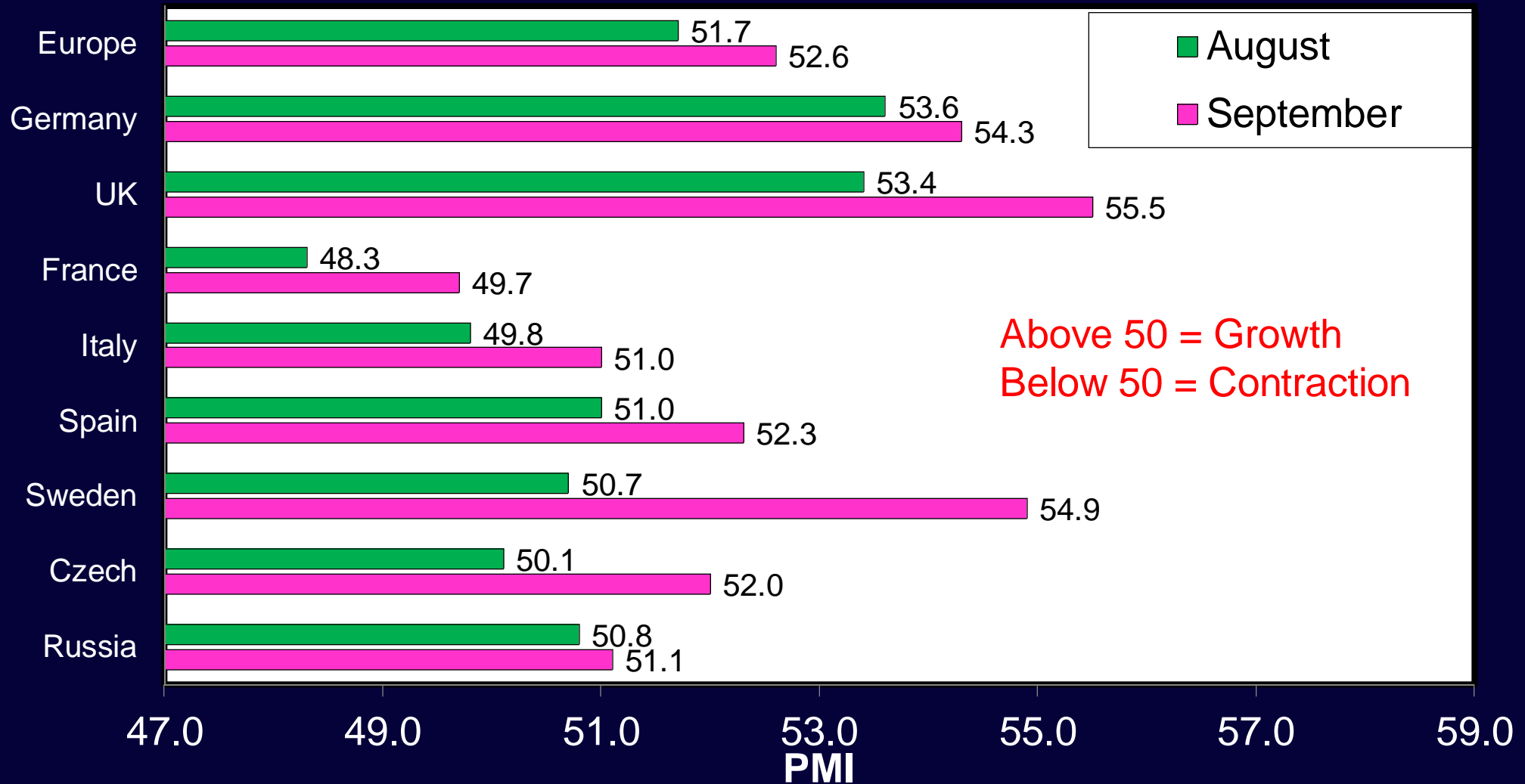
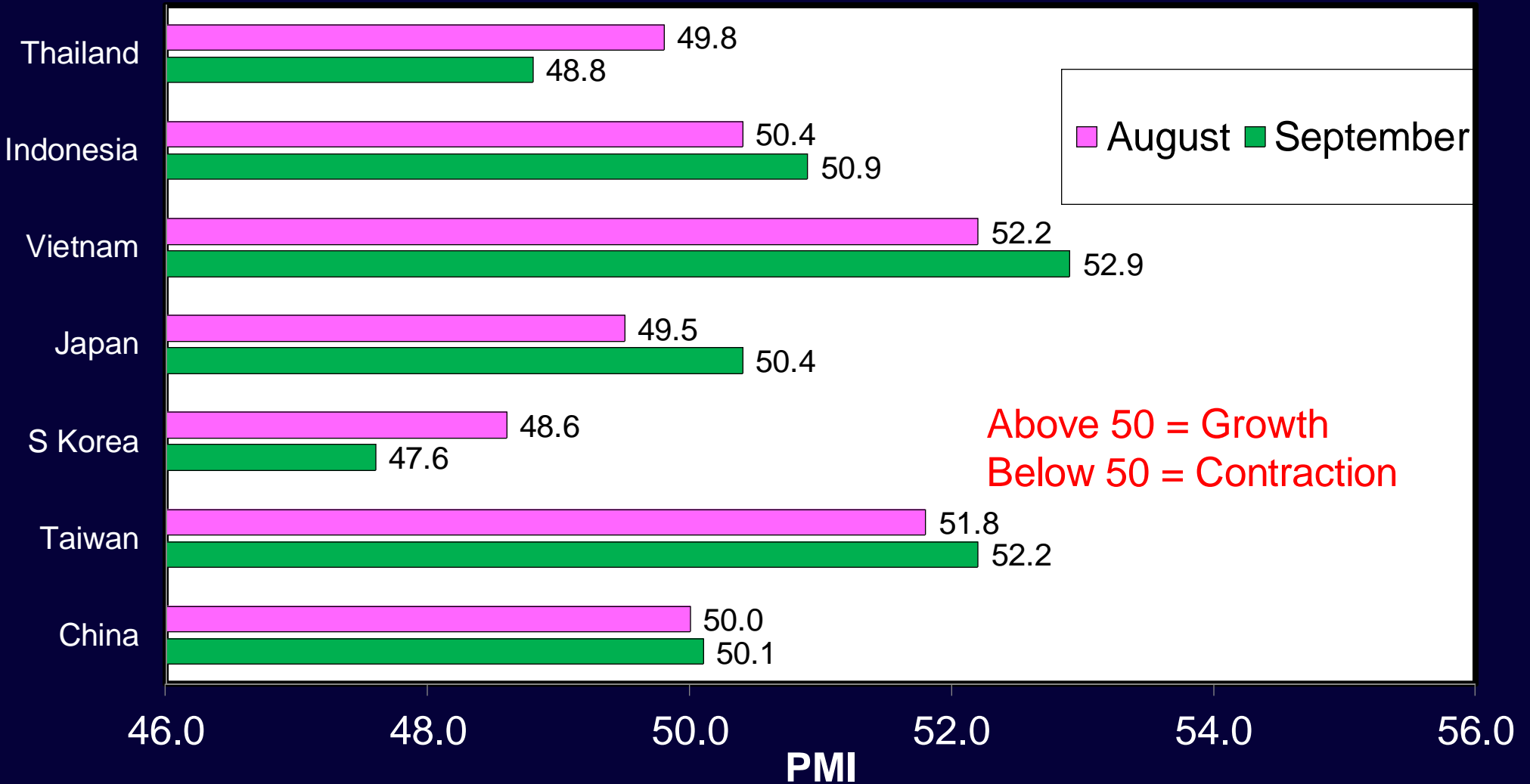
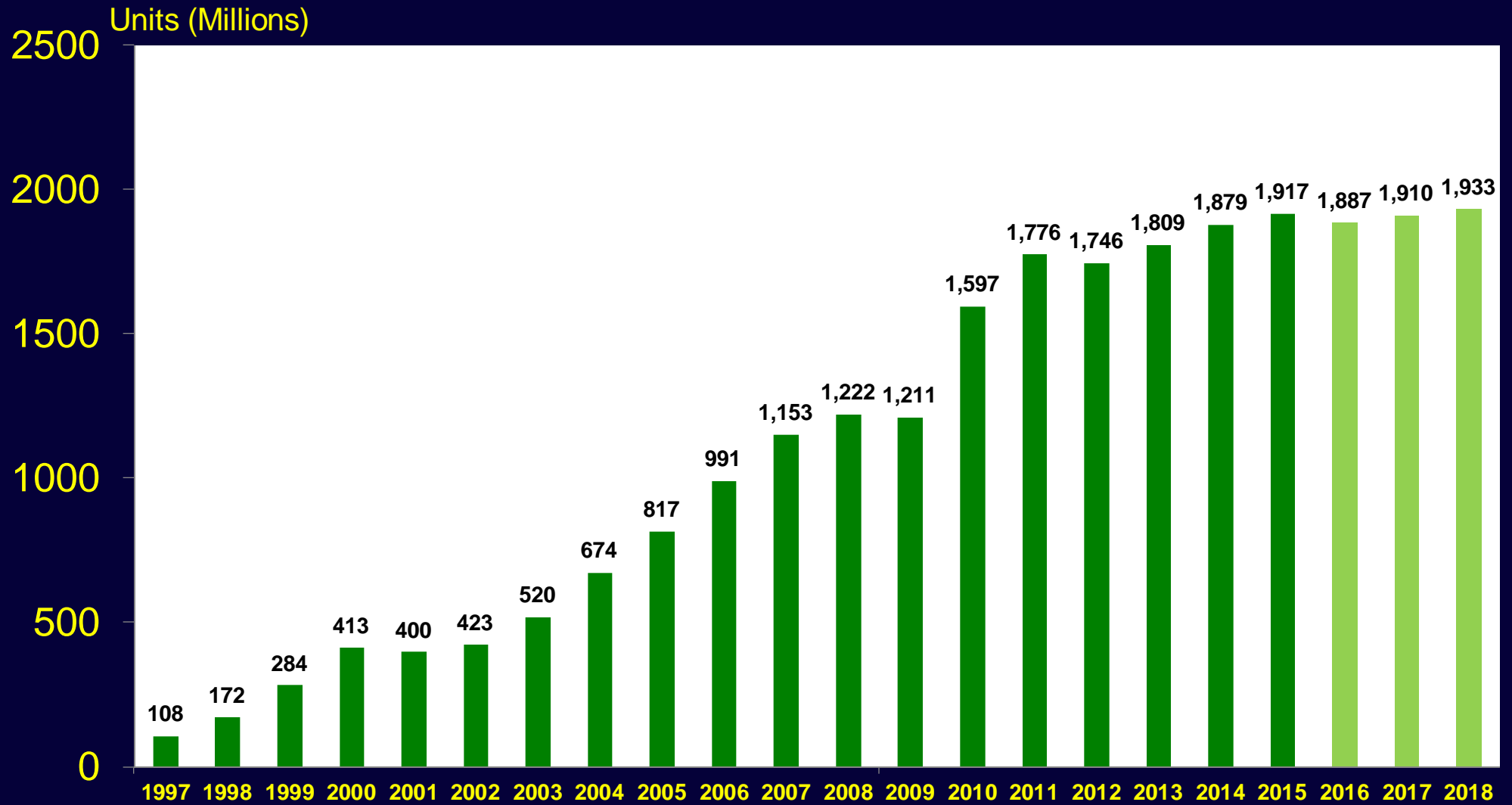


Chart 13

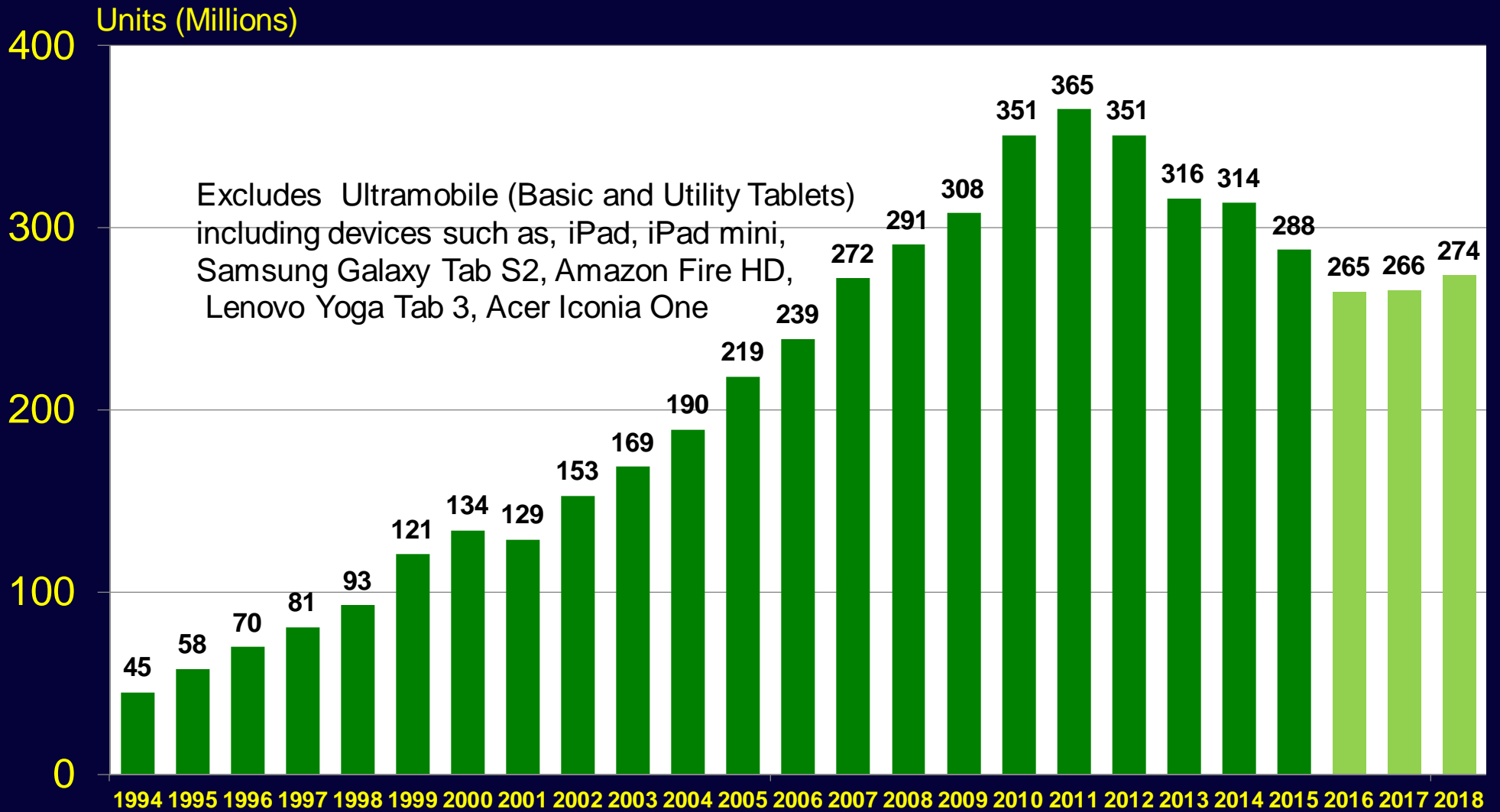
# Asian Purchasing Managers Indices August vs. September 2016



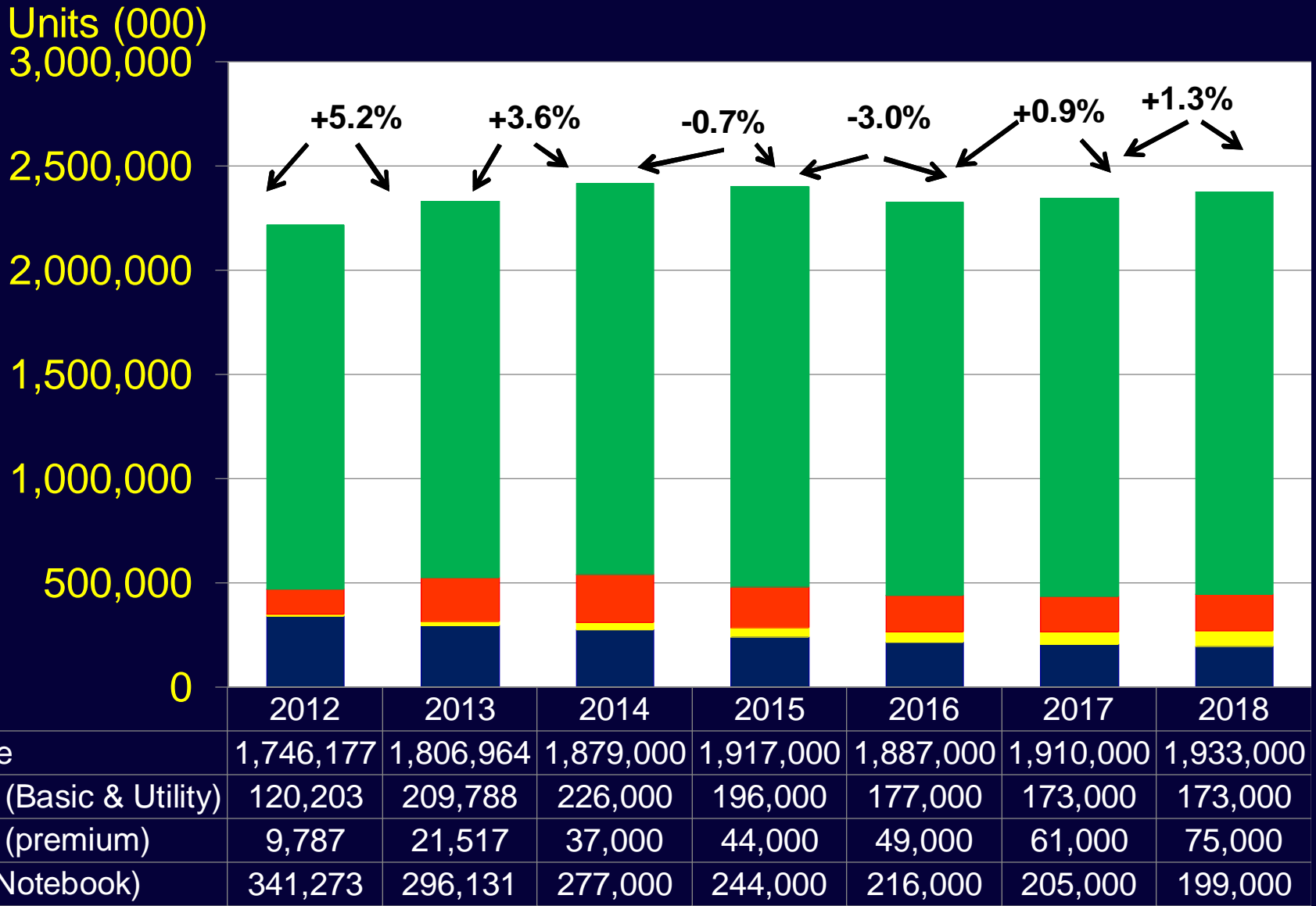
# World Mobile Phone Unit Shipments Total: Analog & Digital



# Personal Computers - Global Shipments Desk-based, Notebooks & Premium Ultramobiles



# World Device Shipments by Segment

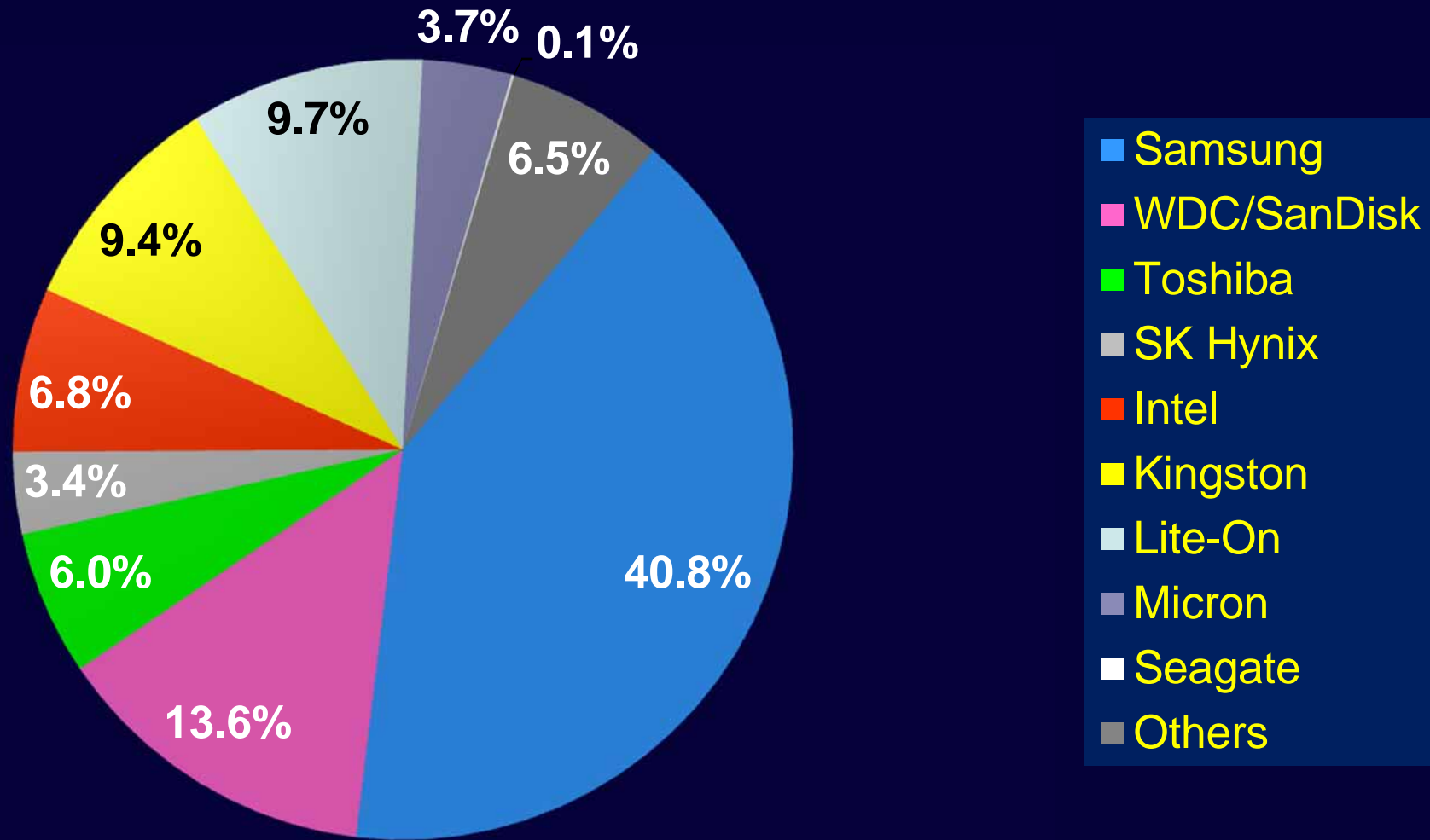




# Worldwide Cloud IT Infrastructure Vendor Revenue Q2'16

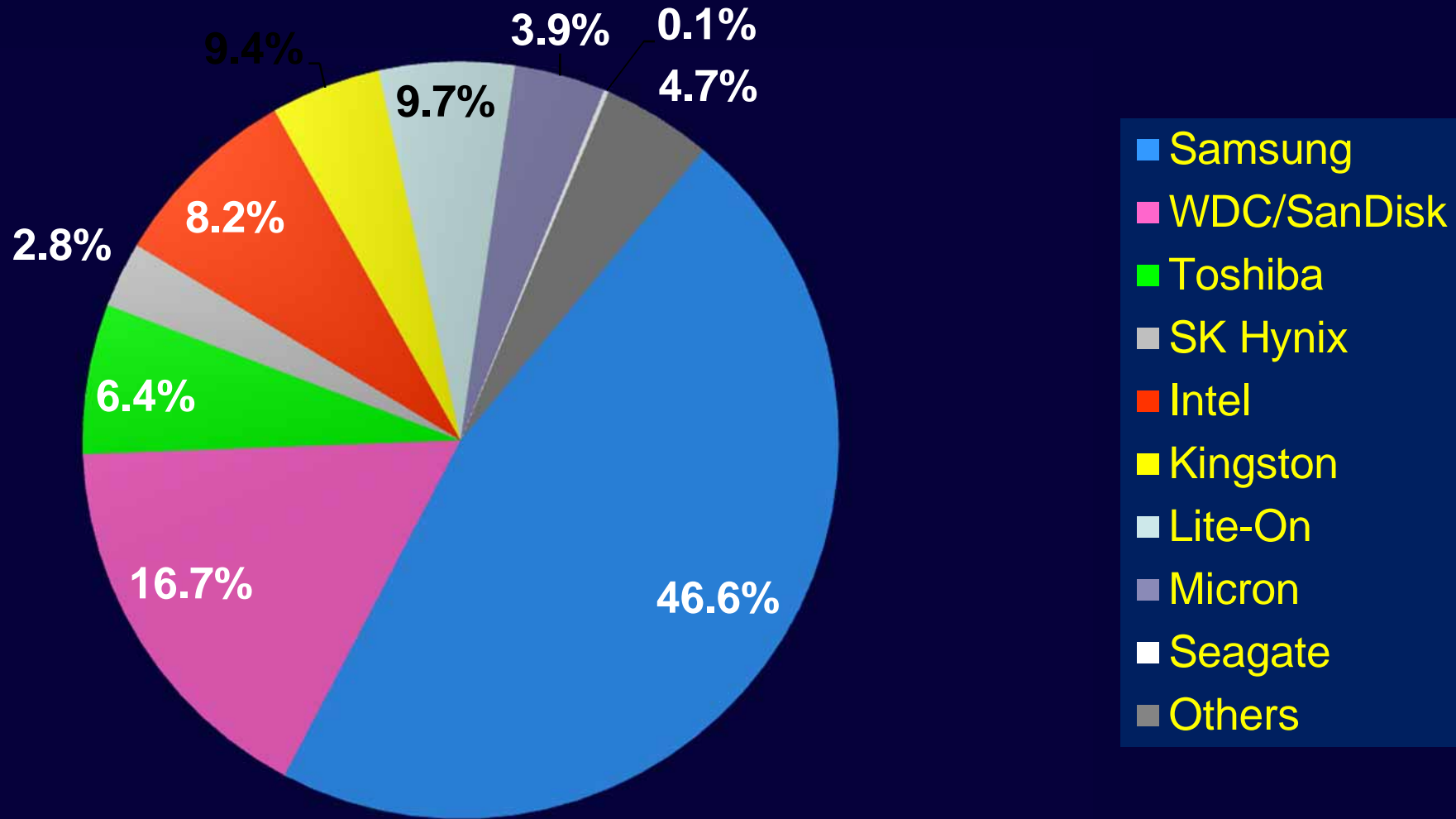
	2Q16 Revenue (US\$M)	2Q16 Market Share	2Q15 Revenue (US\$M)	2Q15 Market Share	2Q16/2Q15 Revenue Growth
1. Hewlett Packard Enterprise	\$1,262	16.4%	\$1,103	16.4%	14.4%
2. Dell	\$1,010	13.1%	\$682	10.1%	48.2%
3. Cisco	\$846	11.0%	\$642	9.5%	31.8%
4. EMC	\$543	7.0%	\$488	7.2%	11.3%
5. Lenovo*	\$258	3.3%	\$203	3.0%	26.6%
5. NetApp*	\$251	3.3%	\$252	3.7%	-0.4%
5. IBM*	\$229	3.0%	\$330	4.9%	-30.8%
5. Huawei*	\$226	2.9%	\$163	2.4%	38.0%
5. Inspur*	\$196	2.5%	\$130	1.9%	50.4%
ODM Direct	\$1,519	19.7%	\$1,690	25.1%	-10.1%
Others	\$1,375	17.8%	\$1,050	15.6%	30.9%
Total	\$7,713	100.0%	\$6,734	100.0%	14.5%

# Total SSD Storage Market Share by Supplier Units 2Q'16



**Total: 33.7 Million Units**

# Total SSD Storage Market Share by Supplier Units 2Q'16



Total: 12.41 Exabytes

# Shipments of SSD by Application

