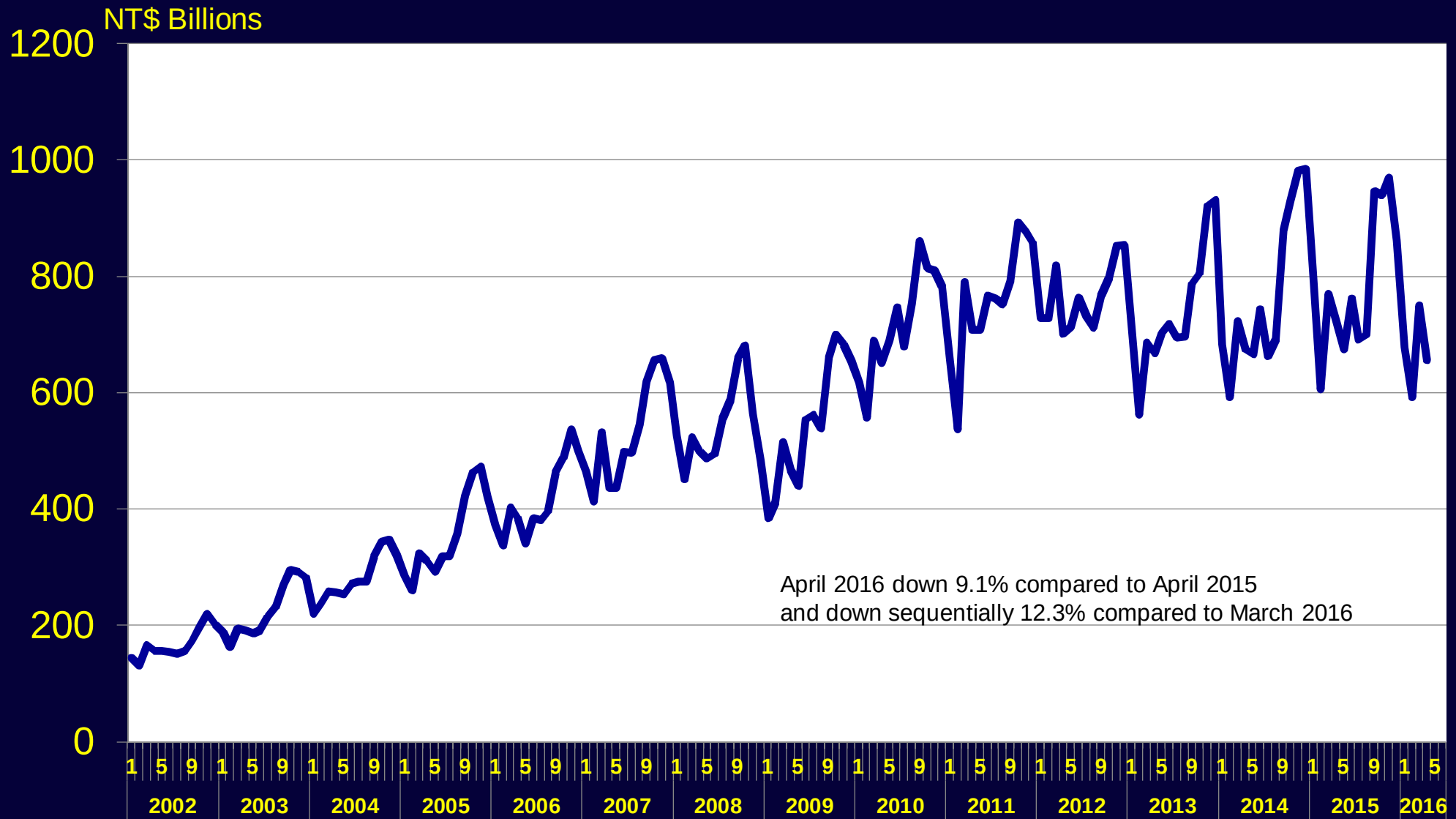
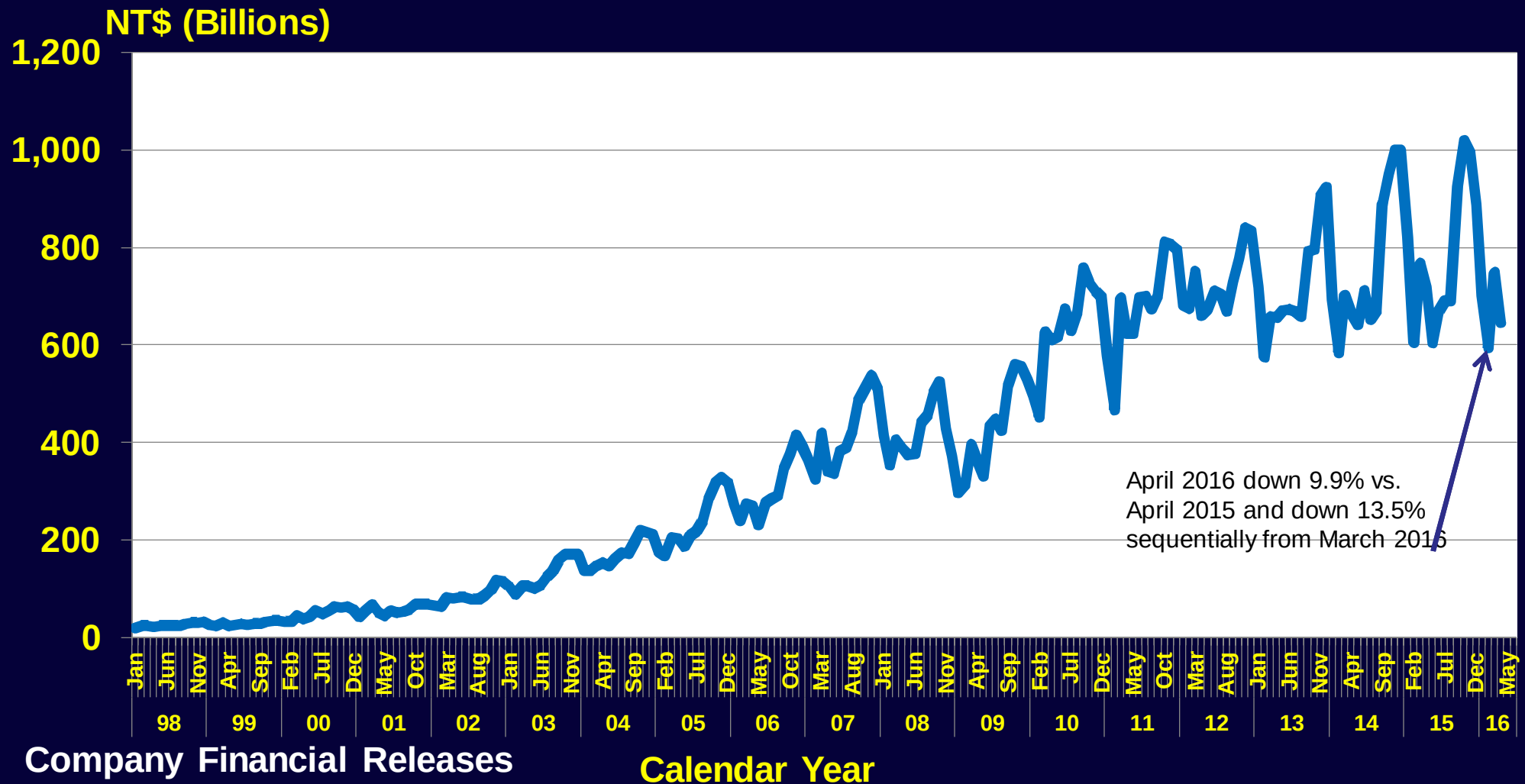


Taiwan/China Electronic Equipment Producers Composite of 101 Manufacturers Consolidated Revenue



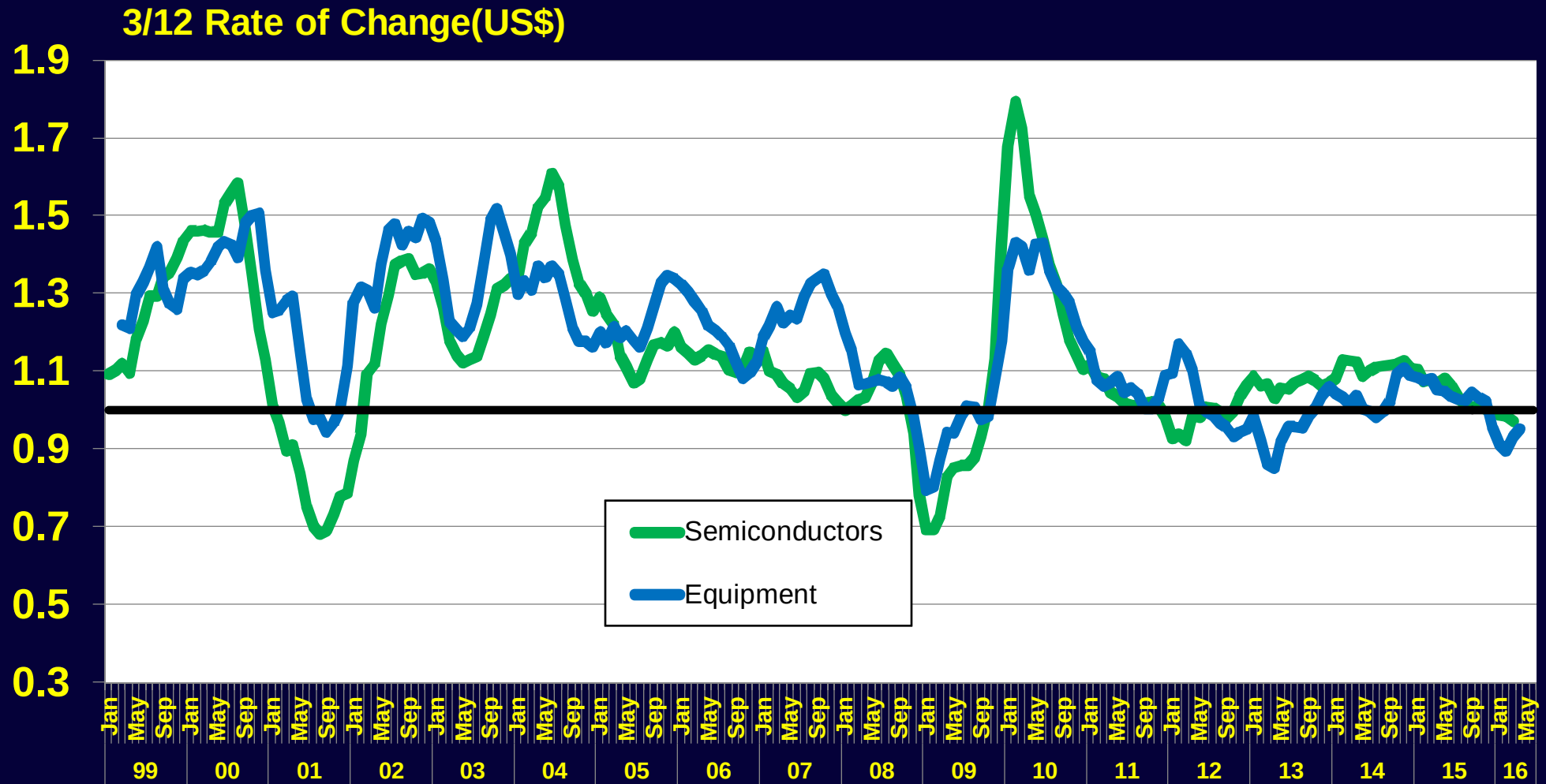
Taiwan ODM Companies

Composite Sales of 11 Large Manufacturers



Asustek Computer, Chei Mei, Compal Electronics, Foxconn, Chimei Innolux, Inventec, Inventec Appliance, Lite On Technology, Mitac International, Pegatron, Quanta Computer, Wistron, Chei Mei Display replacing Chei Mei & Innolux Display 3/10 & later

Semiconductor Shipments to Asia/Pacific vs. Taiwan/China Electronic Equipment Production



Total \$ Semiconductor Shipments from All Countries to SE Asia www.sia-online.org/
101 Taiwan listed companies, often with significant manufacturing in China

Taiwan Wafer Foundries Composite of 14 Manufacturers



VIA Technologies, Advance Microelectronics, Advance Wireless Semiconductor, Episl Technologies, Inotera Memories, Macronix Intl, Mosel Vitelic, Powerchip Semi, Precision Silicon, ProMOS Tech, TSMC, United Microelectronics, Vanguard International Semi, Winbond Electronics

Taiwan Package & Test Companies Composite of 20 Manufacturers



ASE, Ardentec, ChipMOS Tech, Chipbond Tech, E'dale Tech, Formosa, Advance Tech, Fupo Elec, Greatek Elec, International Semiconductor Tech, King Yuan Elec, Lingsen Precision, Orient Semiconductor, Powertech Tech, Signality System, Sigurg Microelectronics, SPIL, Thalin Semiconductor, Vate Tech, Walton Advanced Tech

Taiwan Memory Companies Composite of 8 Manufacturers



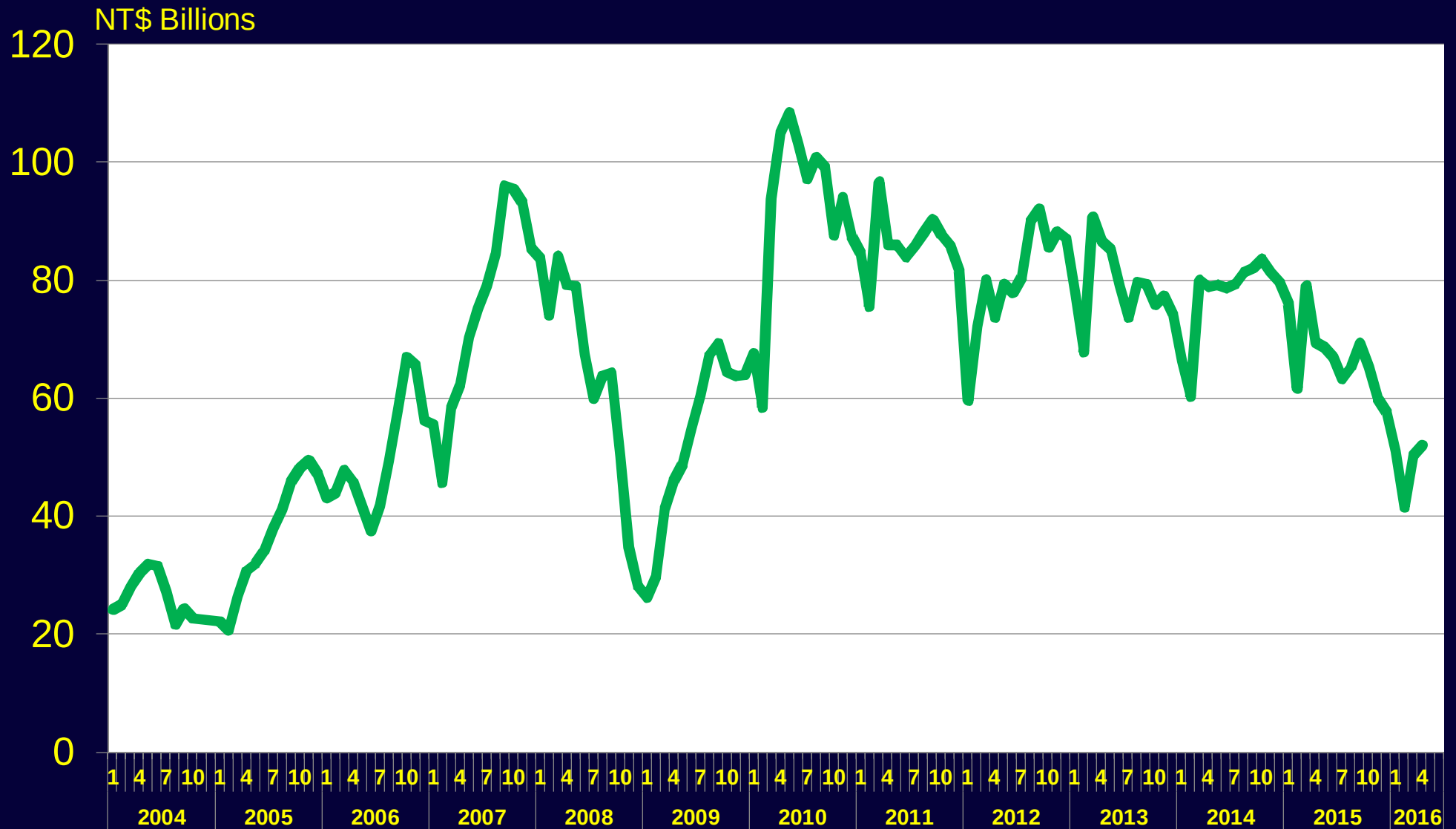
Silicon Integrated Systems, Inotera Memories, Macronix Intl, Mosel Vitelic, NanYa Tech, Powerchip Semiconductor, ProMOS, Winbond Elec

Taiwan Passive Component Companies Composite Sales of 25 Manufacturers



Chilsin Electronics, Cyntec, (FCE) Feei Cheng Enterprise, Holy Stone Enterprise, 3H (Honey Hope Honesty Enterprise), HJC (Hua Jung Components), Inpaq, Jaan Chem Technological, Kaimei Electronic, King Core Electronics, Laser Tek, Leatec Fine Ceramics, Lelon Electronics, Linton Technology, PTTC (Polytronics Technology Corp), PDC (Prosperity Dielectrics Co), Ralec Electronic, Ta-I Technology, Taiwan Alpha Electronic, Team Young Advanced Ceramics, Teapo Electronic, Thinking Electronic Industrial, WTC (Walsin Technology Corp), Yageo, YCTC (Yeh-Chiang Technology Corp)

Taiwan Display Producers Composite of 6 TFT-LCD Panel Manufacturers



Taiwan listed companies, often with significant manufacturing in China

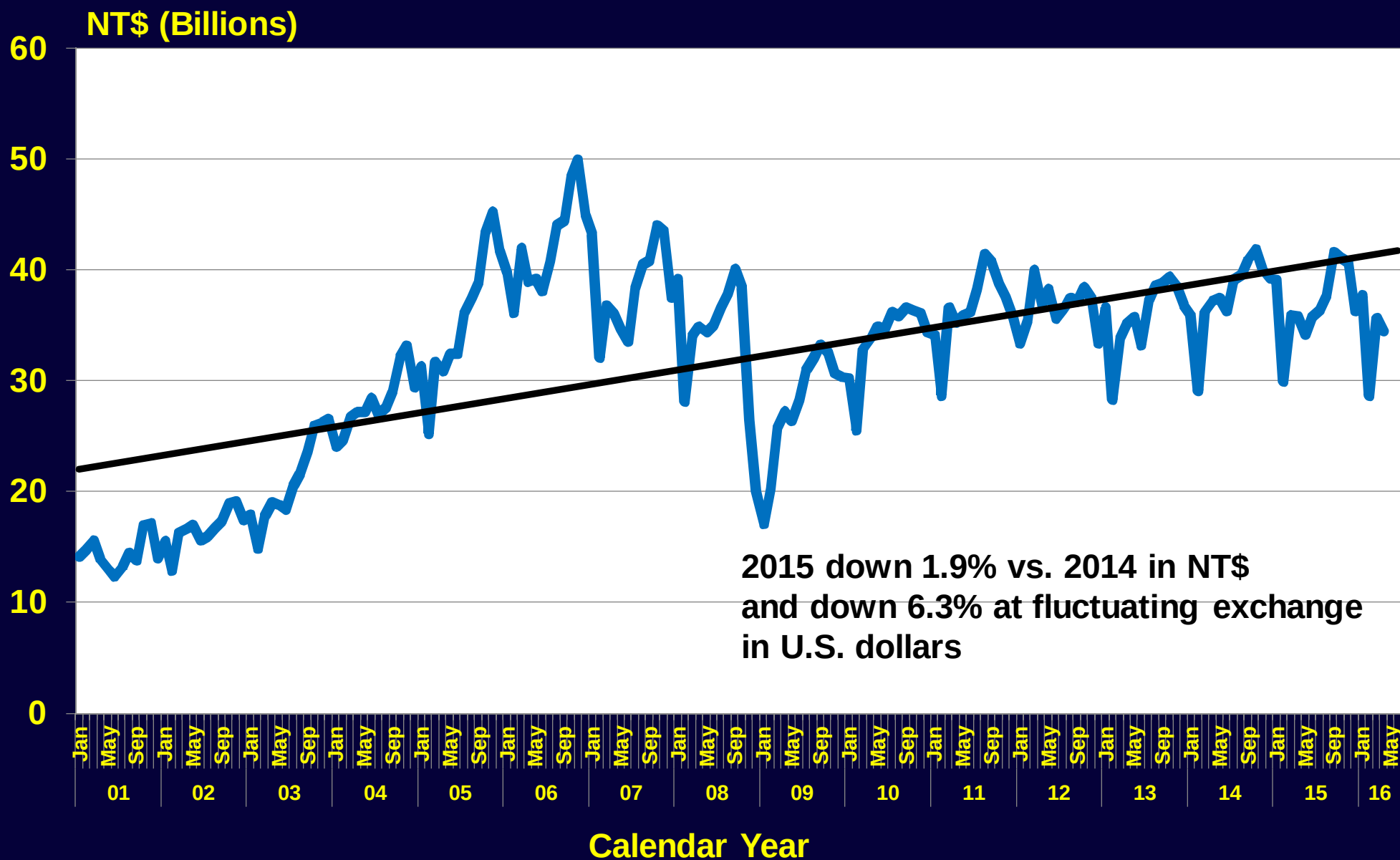
Taiwan Solar/Photovoltaic Panel Companies Composite of 27 Manufacturers



Acter, Big Sun Energy Technology, Chen Full Intl, Danen Technology, Daxon Technology, DeISolar, Delta Electronics, e_TON Solar Tec, Invetec Group, Eversol, Gigasolar materials, Gintech, Green Energy Technology (GET), Higher Way Elec, Kenmec Mechanical, Ligitek, Motech, Neo Solar Power, Phoenixtec Power Co (PPC), Powermate, Precision Silicon, Sino-American Silicon Products (SAS), Solar Applied Materials Technology, Solartech Energy Corp, Sunrise Global Solar Energy, Sysgration, Tainenergy Tech, Tera Autotec, Tyntek, Wafer Works, Wholetech System Hitech

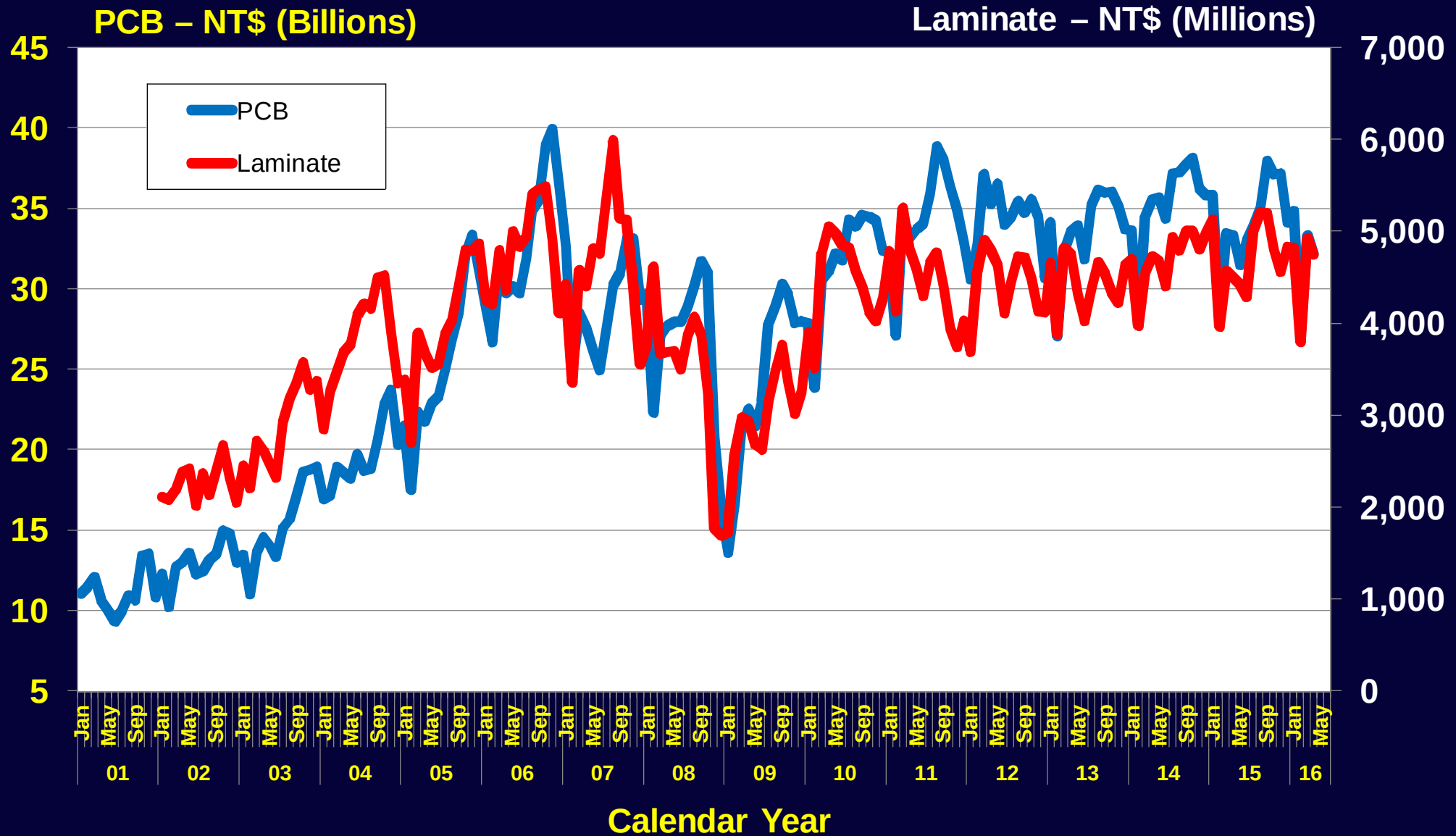
Taiwan Rigid & Flex PCB Shipments

Broad Composite of 46 Taiwan-listed Manufacturers

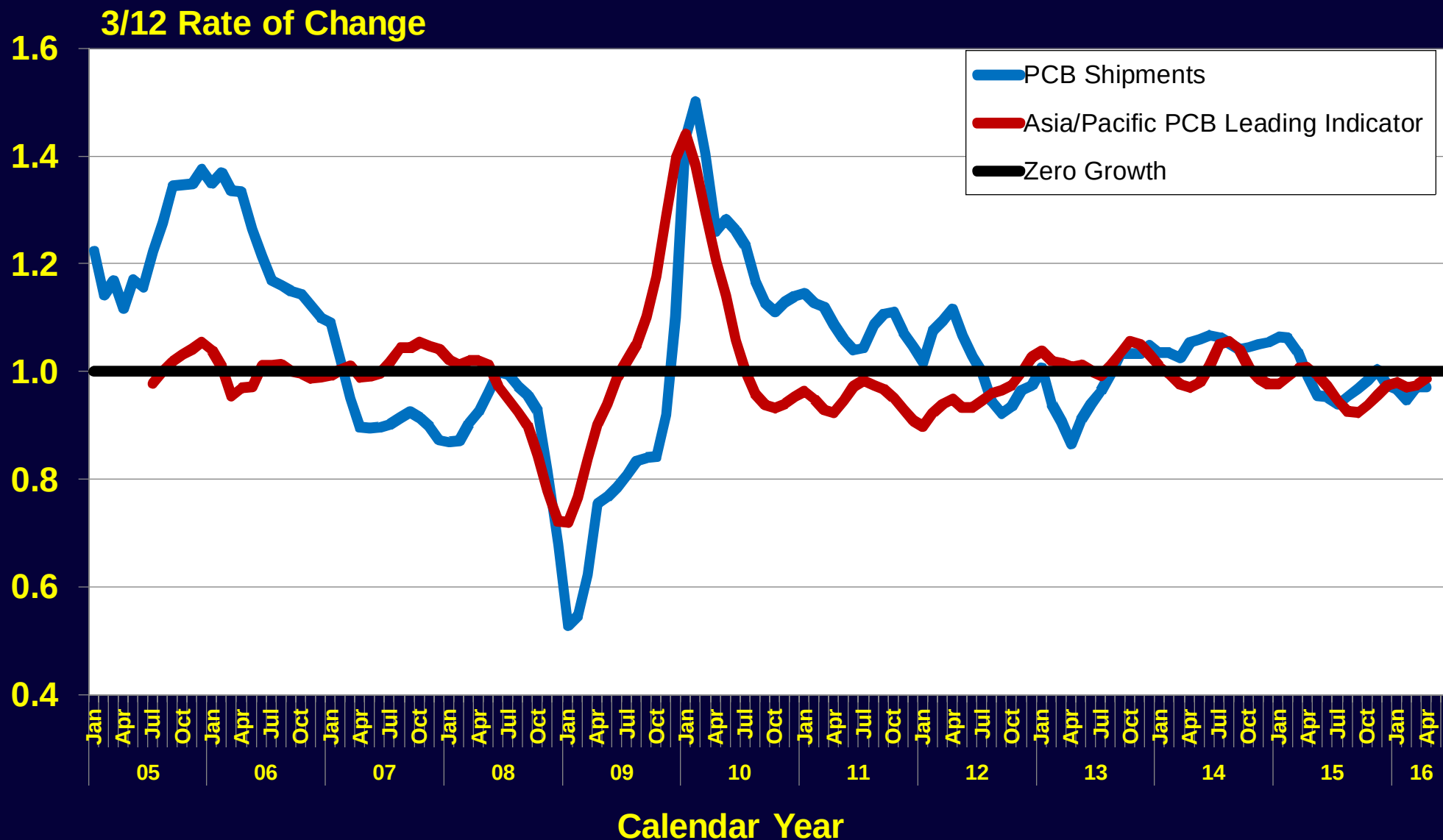


Taiwan Shipments

42 Rigid PCB & 8 Laminate Manufacturers

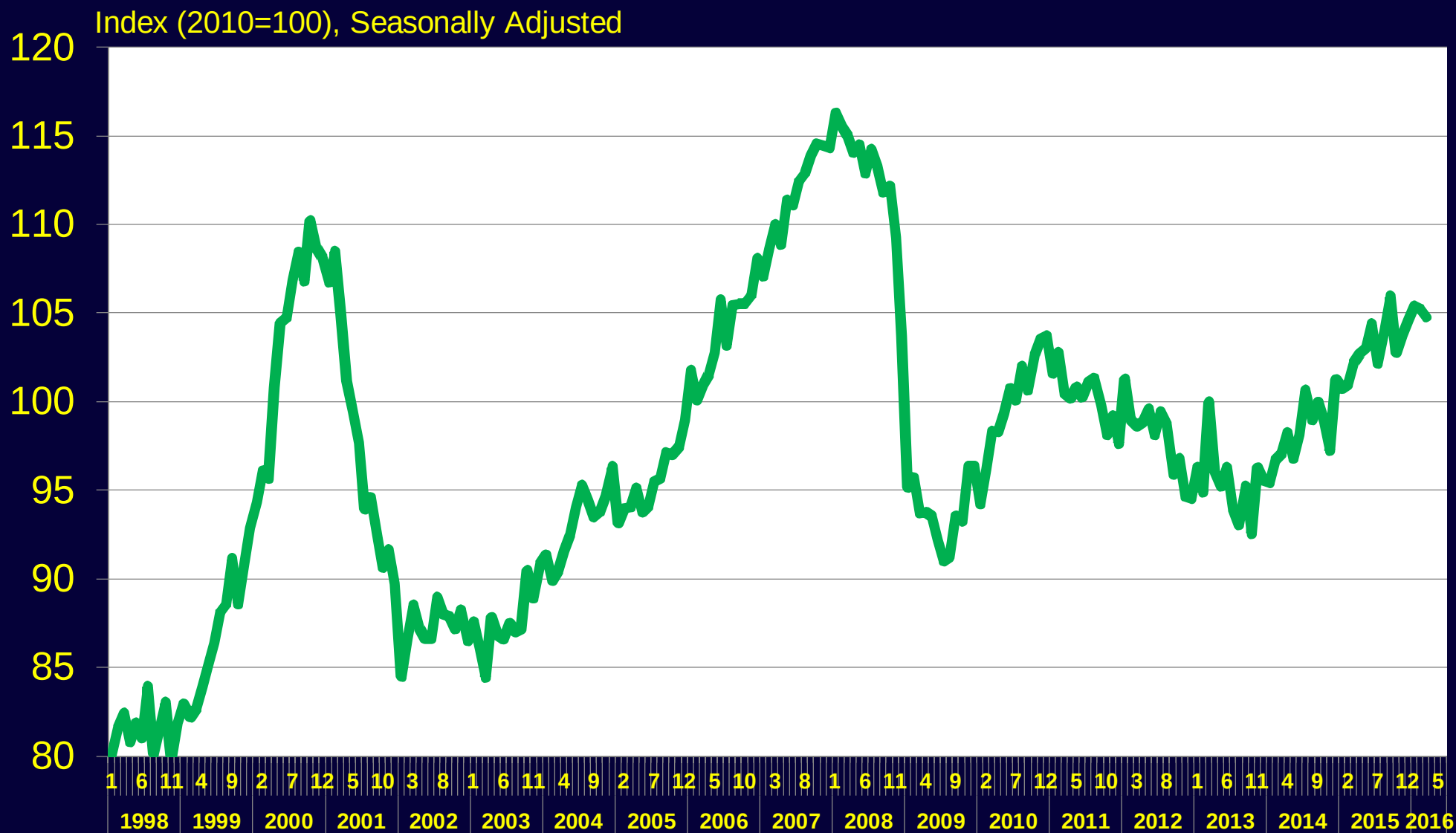


Asia Pacific CCG PCB Leading Indicator vs. China/Taiwan PCB Shipments @ Fluctuating Exchange



Source: Custer Consulting Group

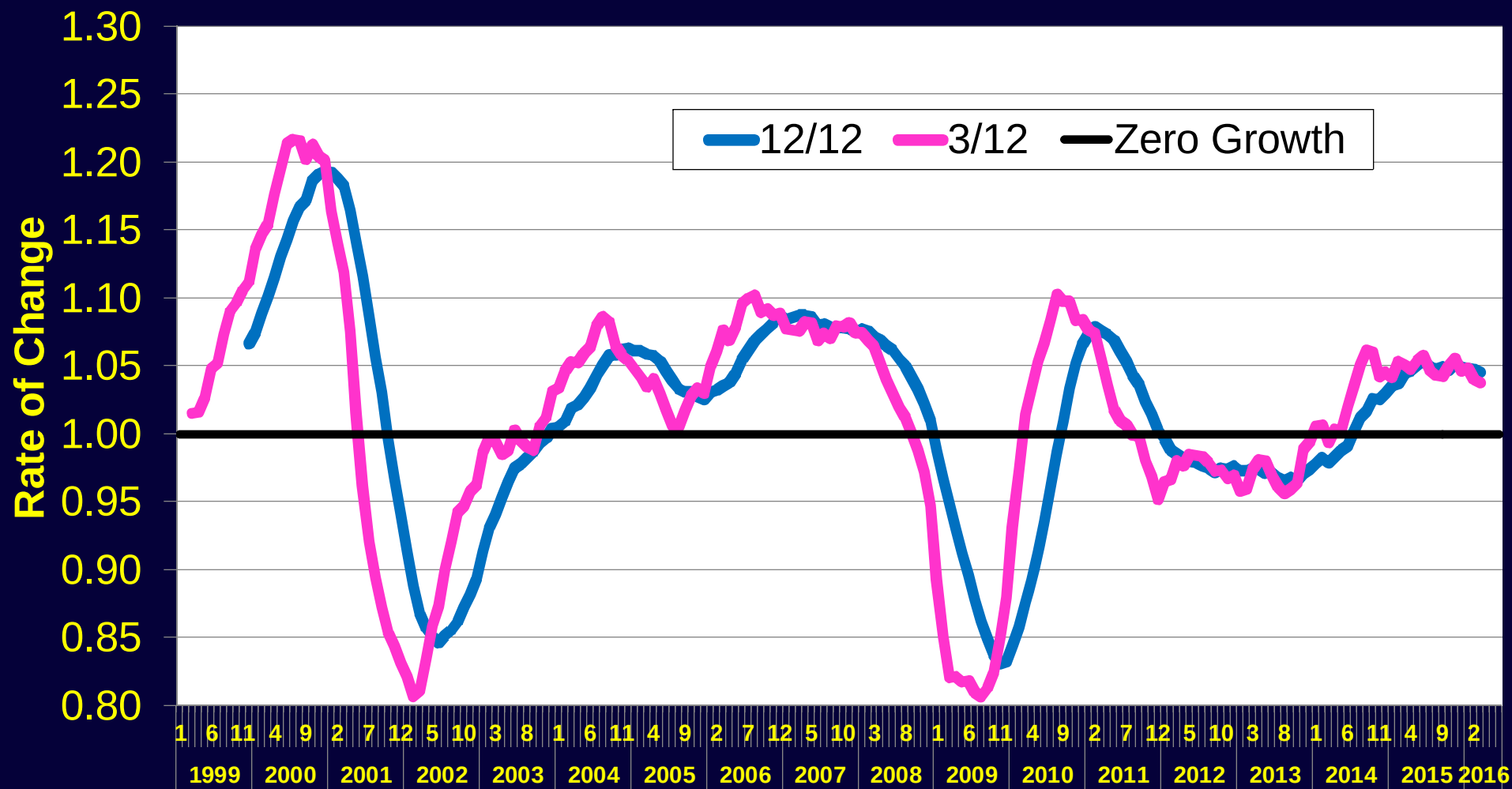
European Computer, Electronic & Optical Products Production



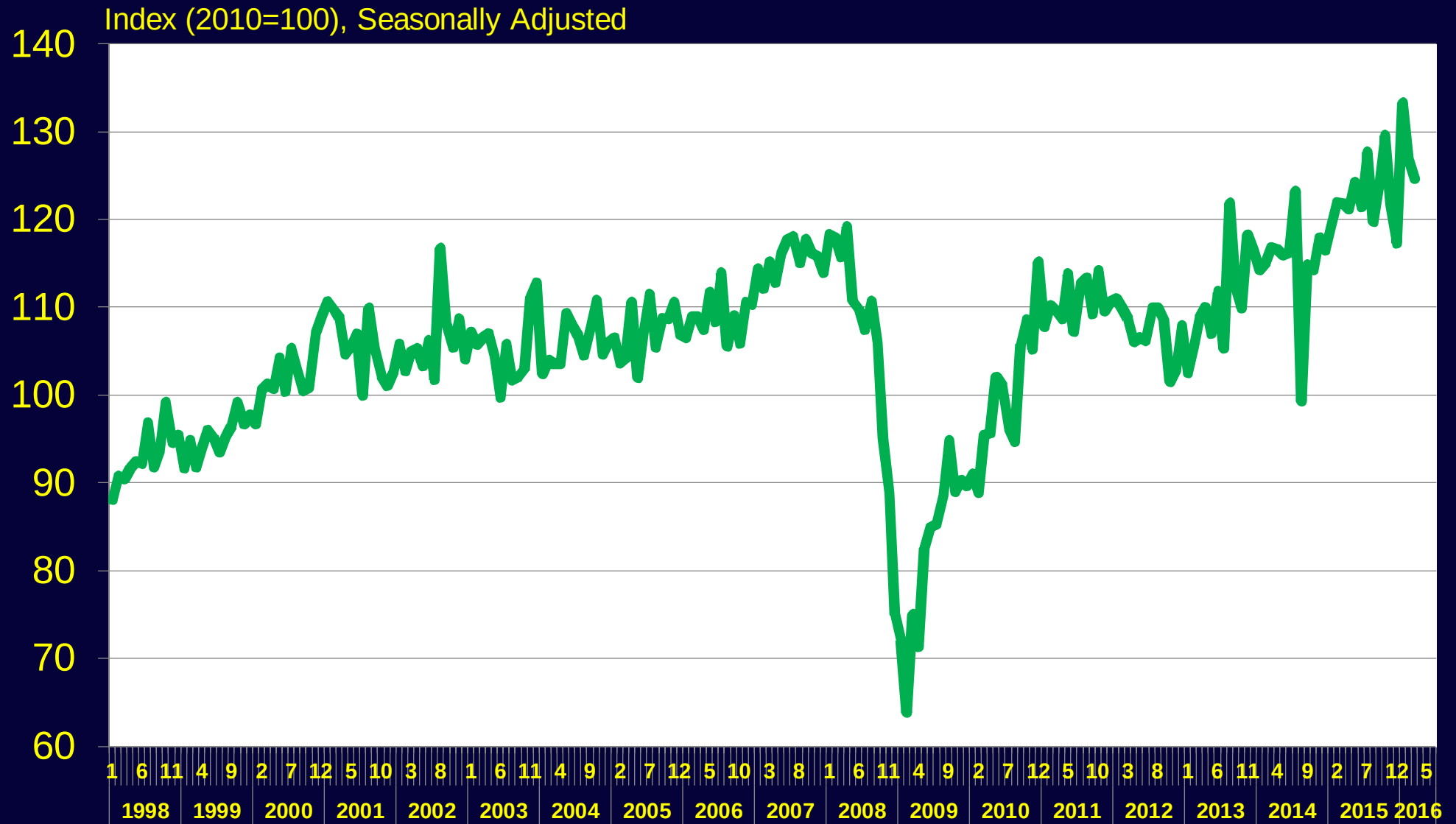
Europe- EU27

Manufacture of computer, electronic & optical products

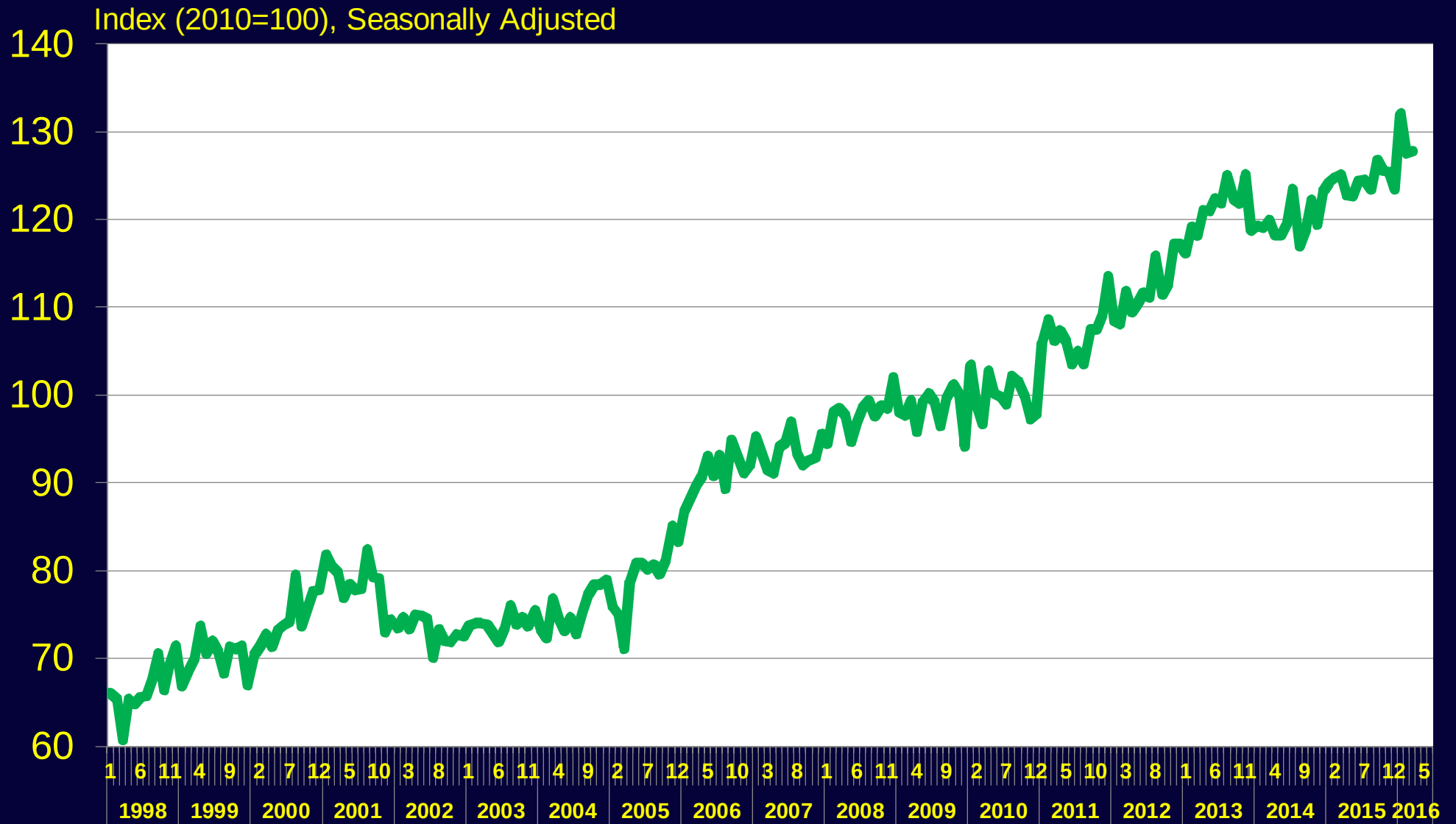
12/12 & 3/12 Rate of Change



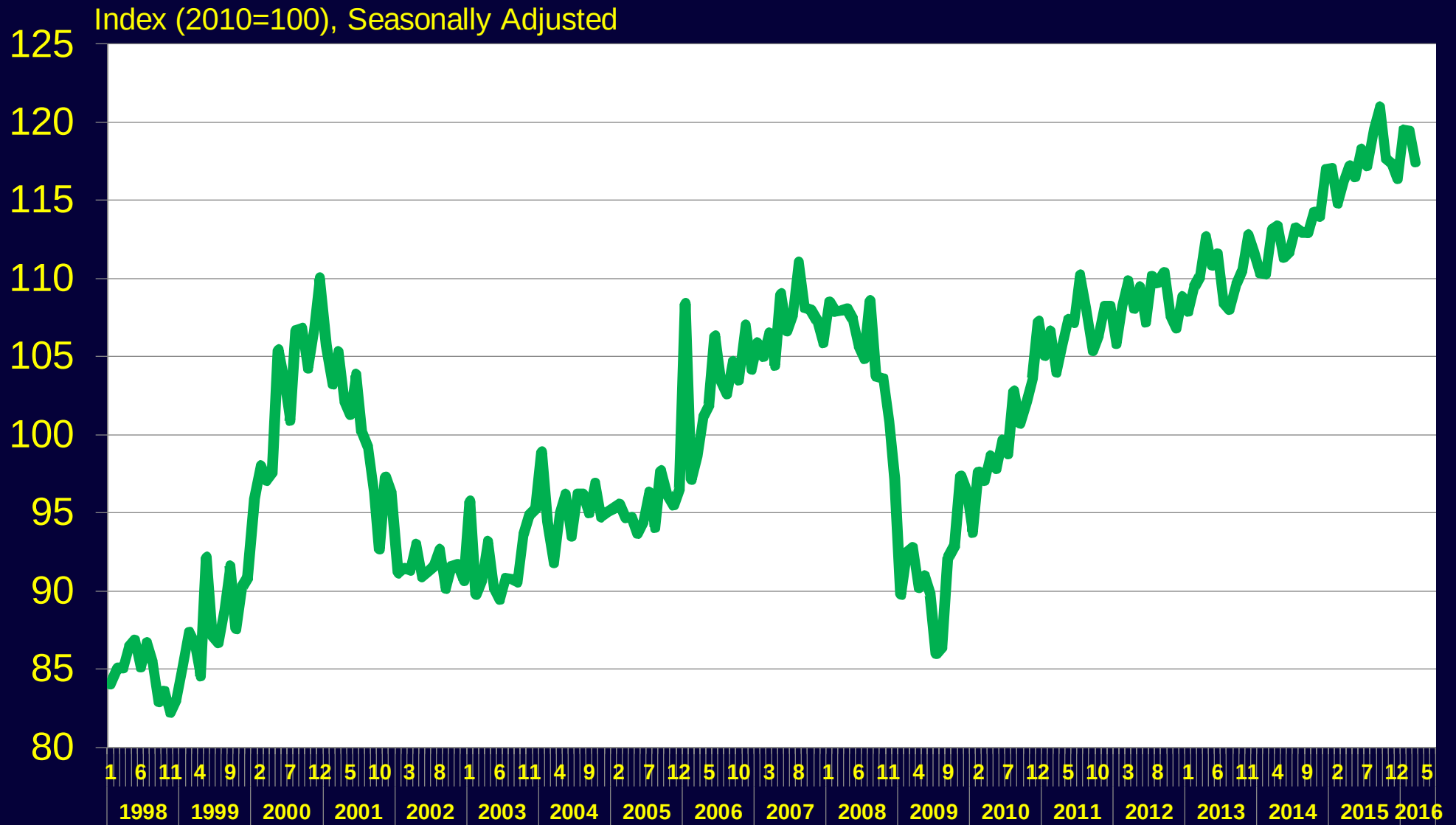
European Motor Vehicle Production



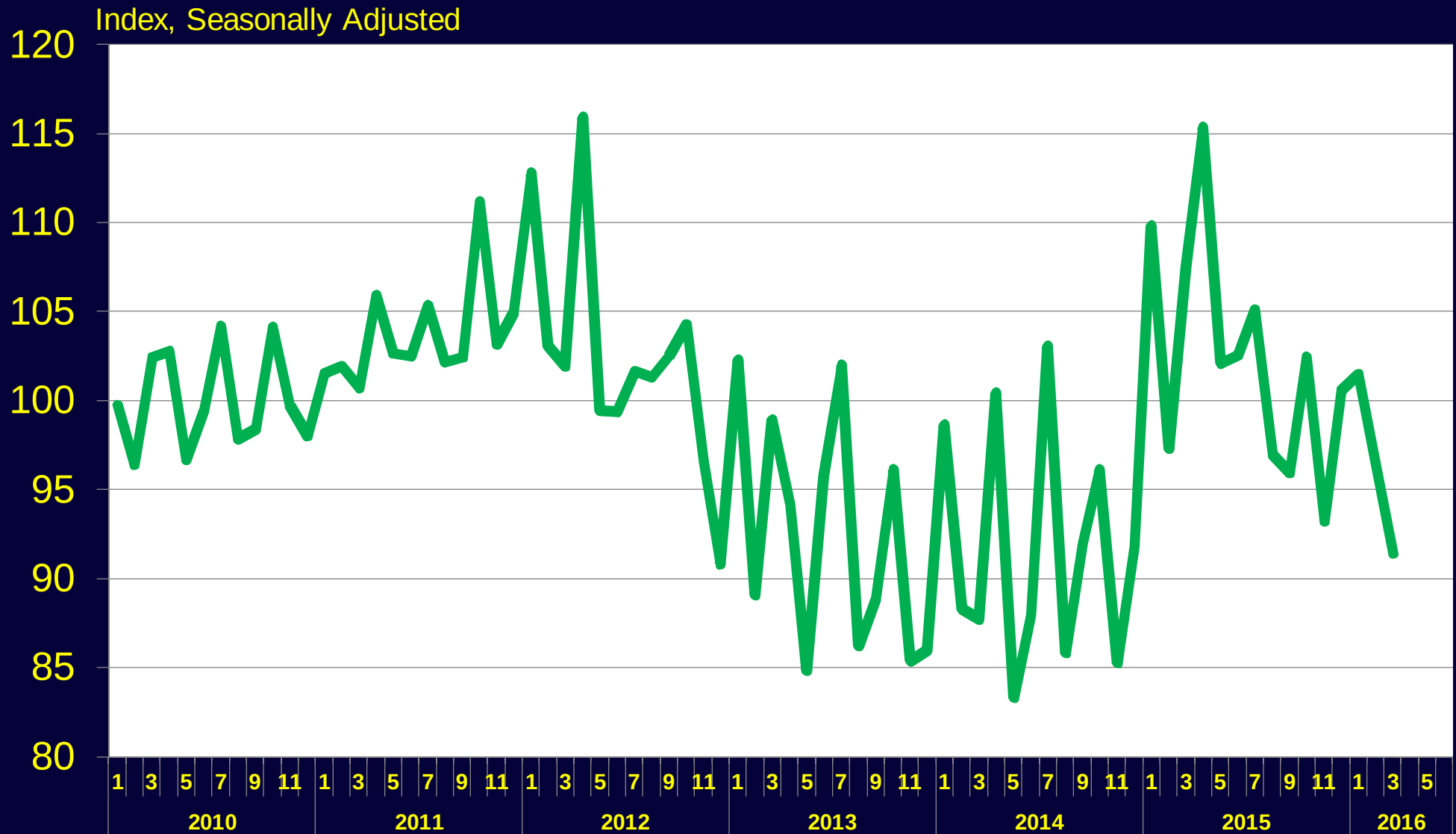
European Production - Aircraft, Spacecraft & Related Equipment



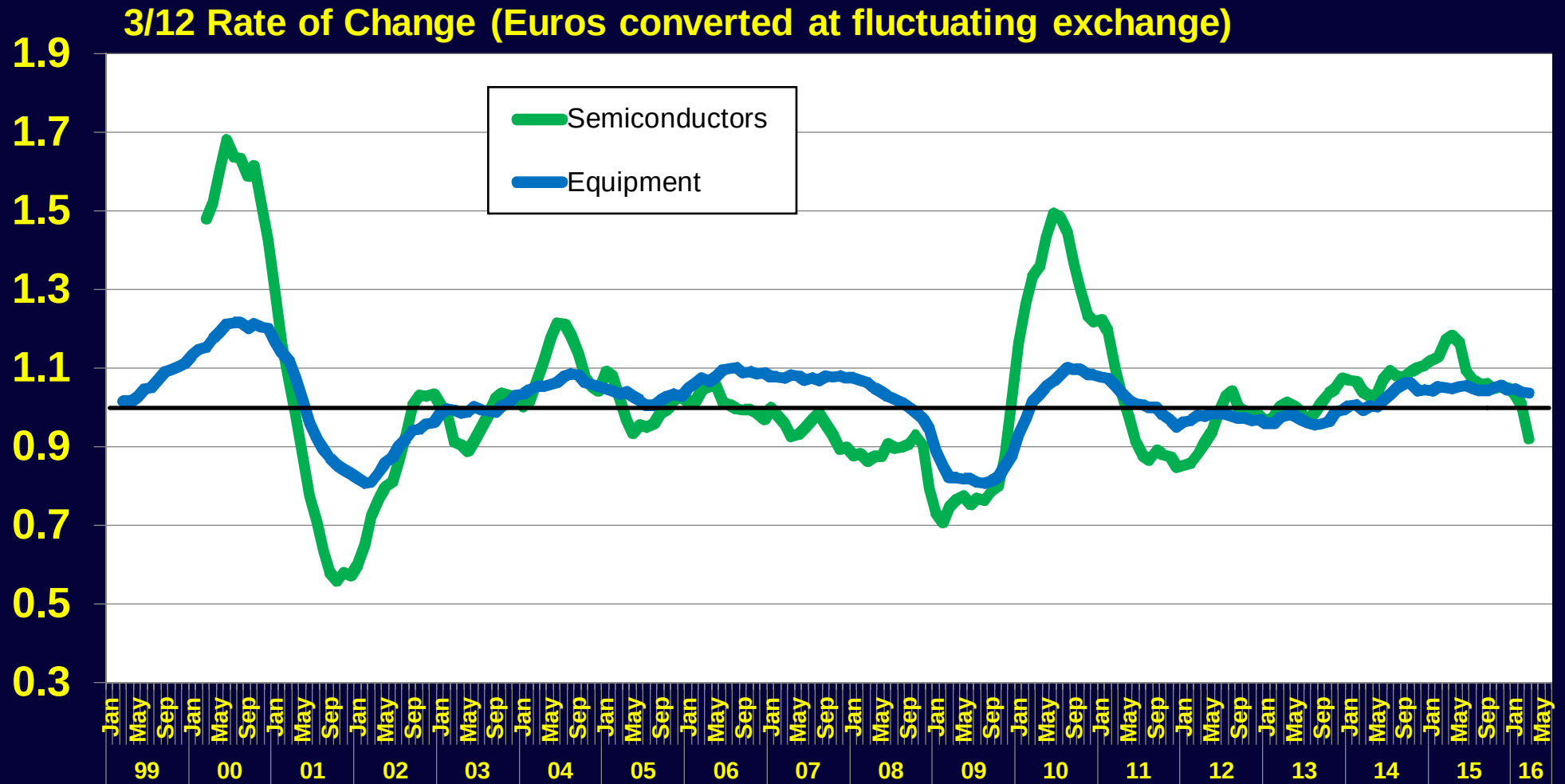
European Production - Instruments & Appliances for Measuring, Testing & Navigation



European Production - Irradiation, Electromedical & Electrotherapeutic Equipment



Semiconductor Shipments to Europe vs. European Electronic Equipment Production

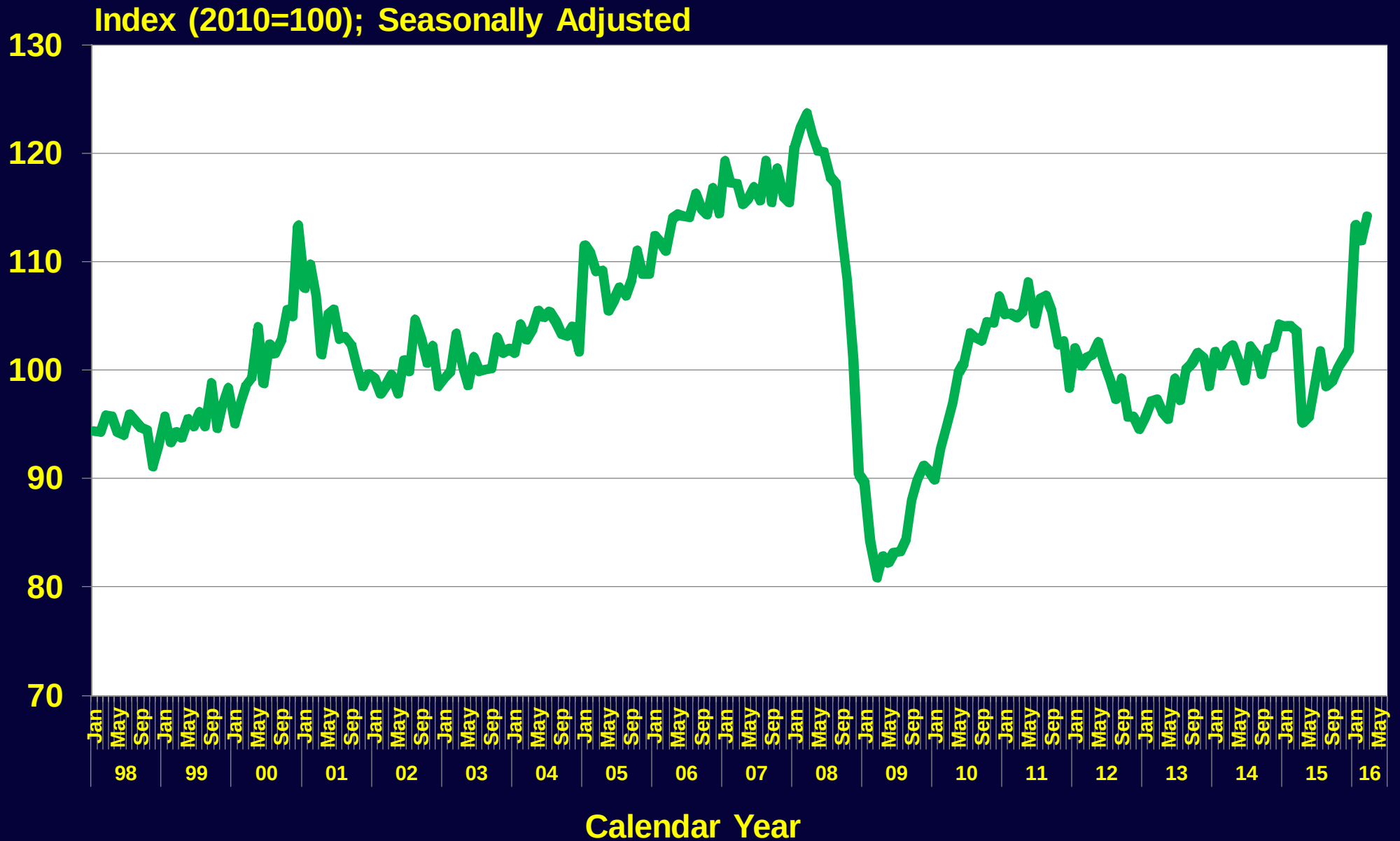


Total \$ Semiconductor Shipments from All Countries to Europe www.sia-online.org/,
Eurostat class C26, EU27, European Computer, Electronic & Optical products Production

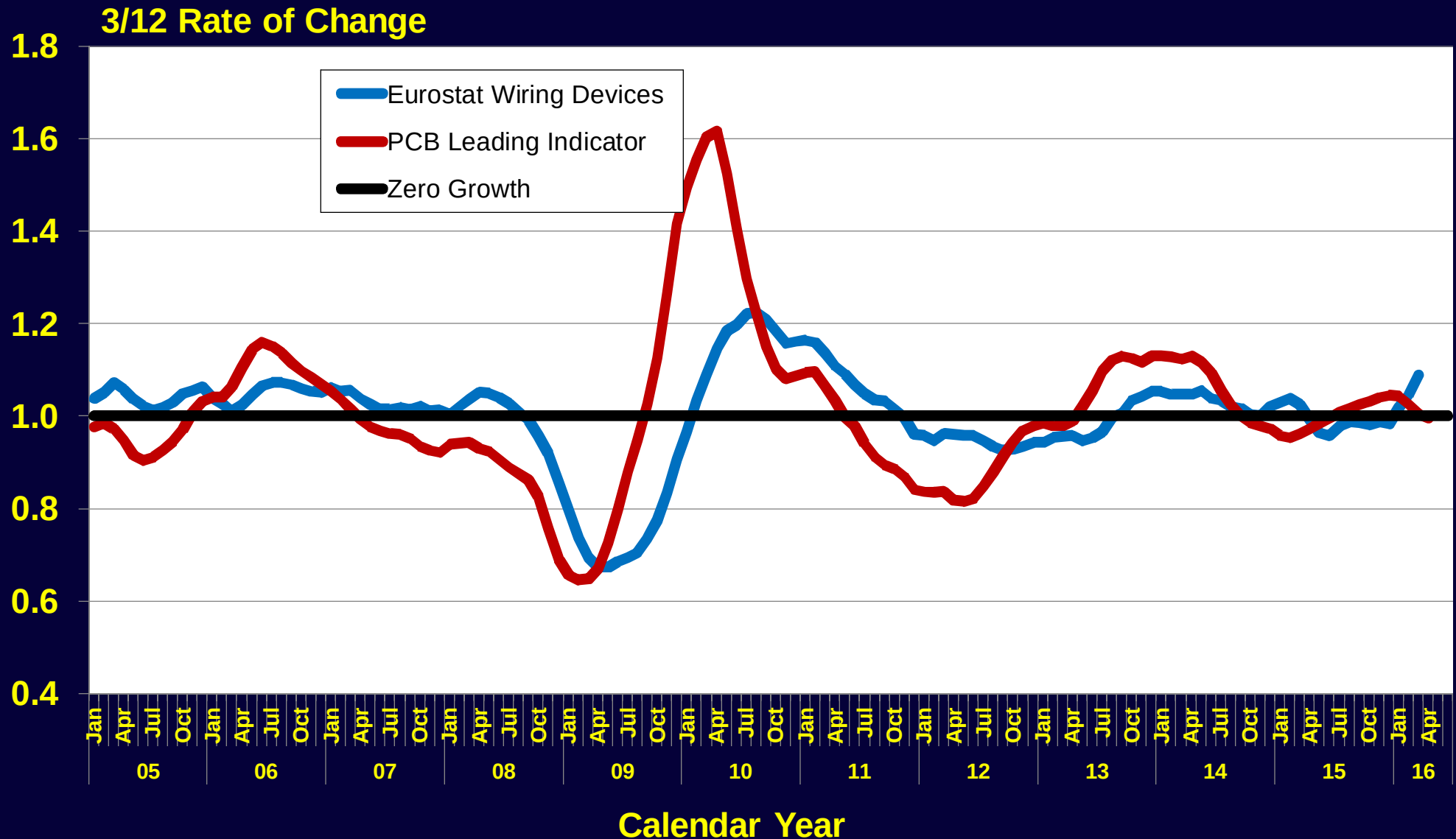
European Loaded Electronic Board Production



European Electronic Wiring Devices



Europe PMI Leading Indicator vs. Europe Wiring Devices



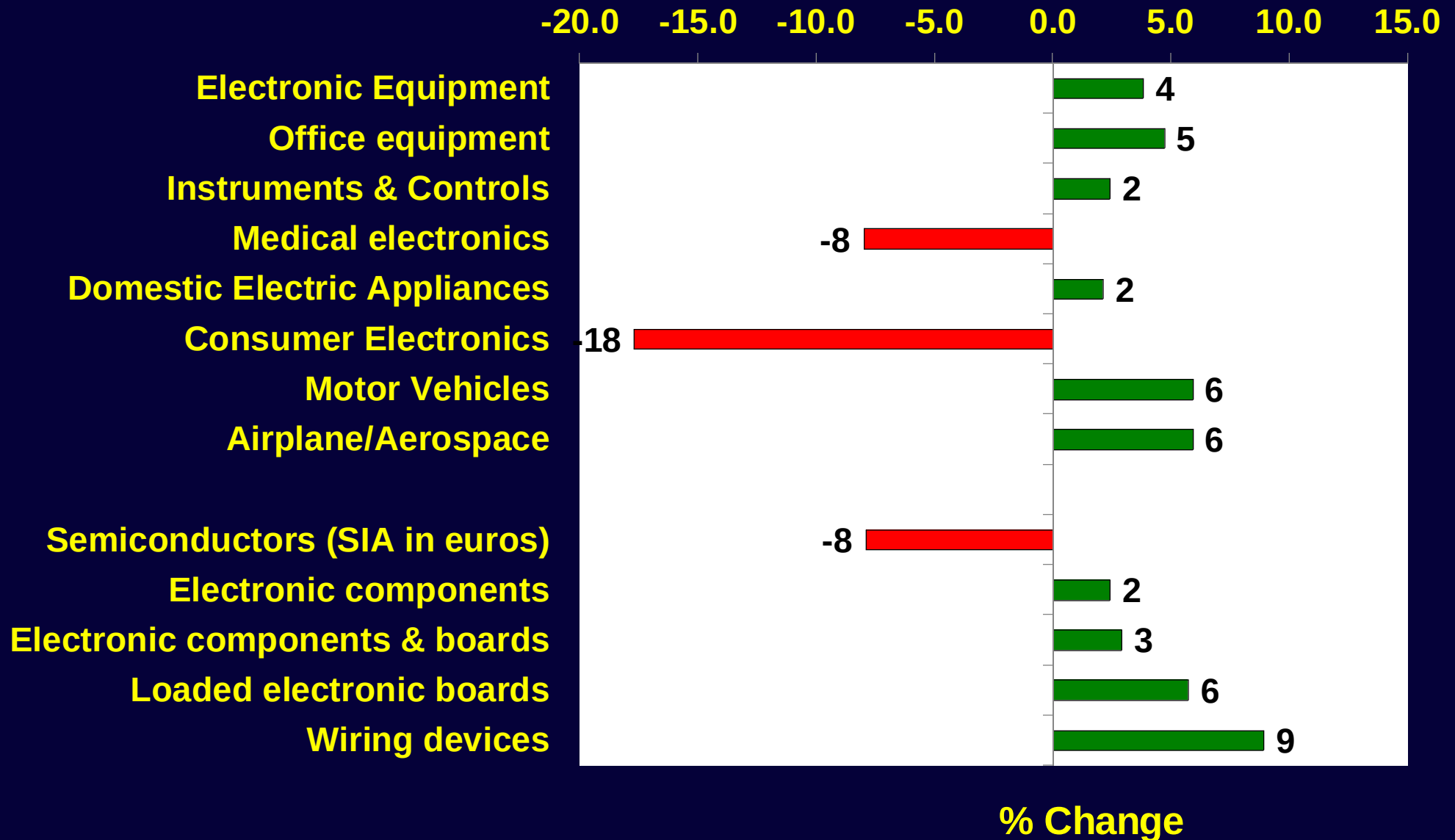
Source: Custer Consulting Group

Present Growth Rates (%)

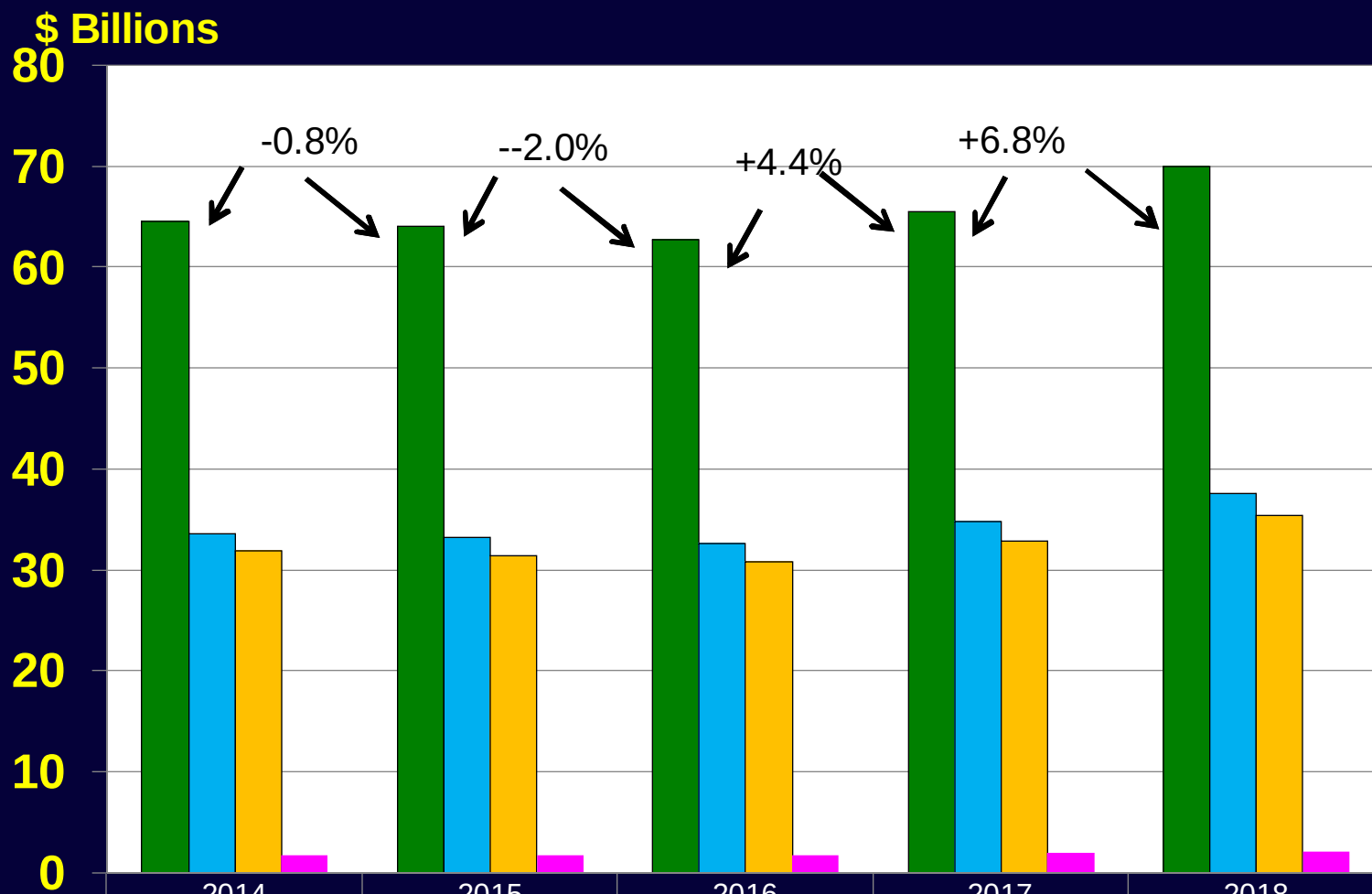
European Electronics Industry

	Latest Month	Annual Growth Rate	3-Month Growth Rate
ELECTRONIC EQUIPMENT SHIPMENTS (Index CY 2010 =100)			
Computer, Electronic & Optical Products	3/16	104.6	103.8
Components & Boards	3/16	102.4	102.9
Components	3/16	103.0	102.4
Wiring Devices	3/16	100.5	108.9
Loaded Electronic Boards	3/16	101.8	105.7
Office Equipment	3/16	88.5	104.7
Consumer Electronics	3/16	89.2	82.3
Electric Domestic Appliances	3/16	102.0	102.1
Electronic Instruments	3/16	103.6	102.4
Medical Electronics	3/16	105.6	92.0
Motor Vehicles	3/16	106.7	105.9
Air & Space Aircraft	3/16	103.6	103.5
Semiconductor Shipments (Eur) to Europe	3/16	103.0	92.1
Industrial Production	3/16	102.0	102.1

European Electronic Supply Chain Growth 1Q'16 vs 1Q'15

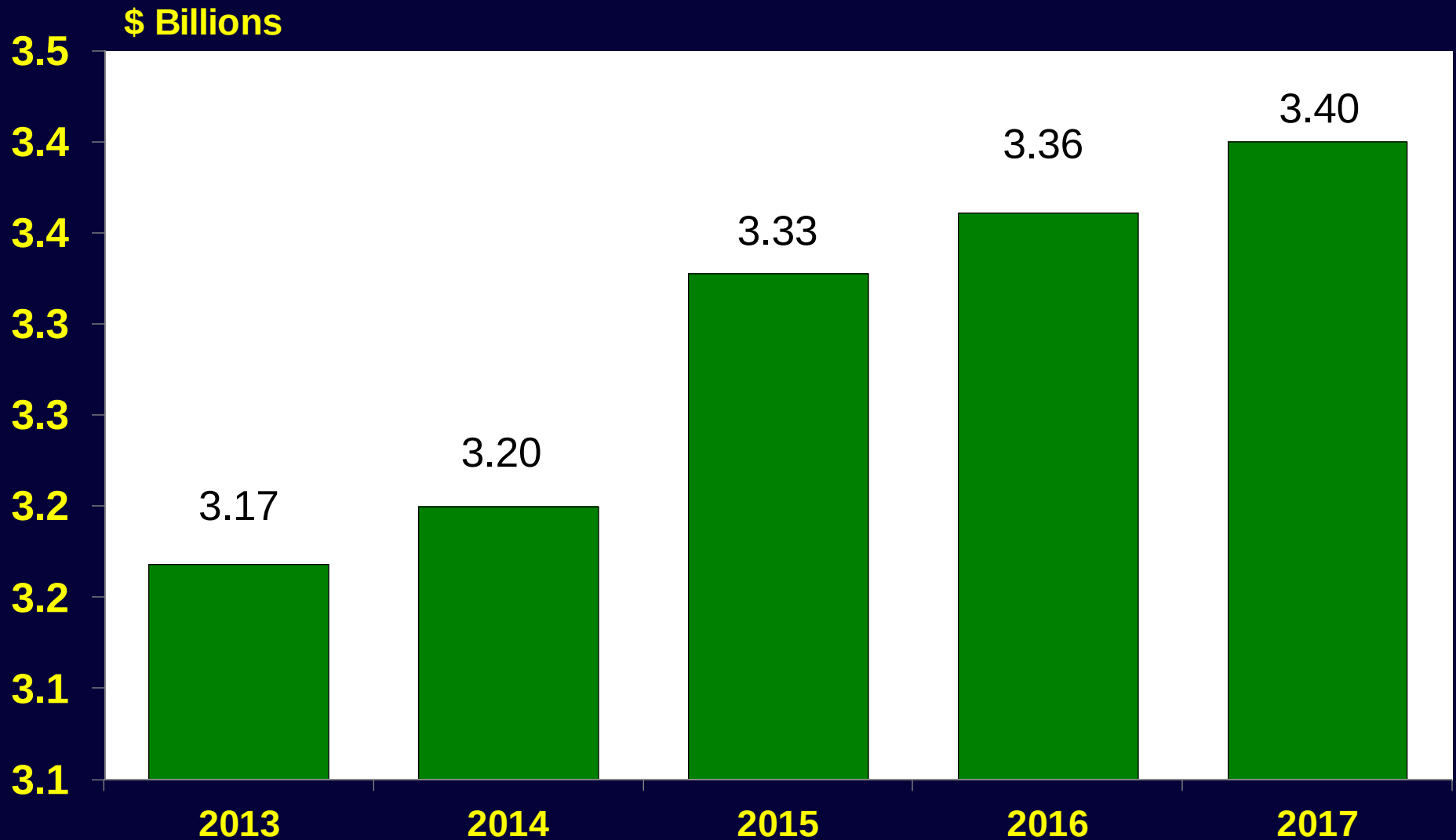


World Semiconductor Capital Spending & Equipment Spending Forecast 2014-2019 (\$Billions)



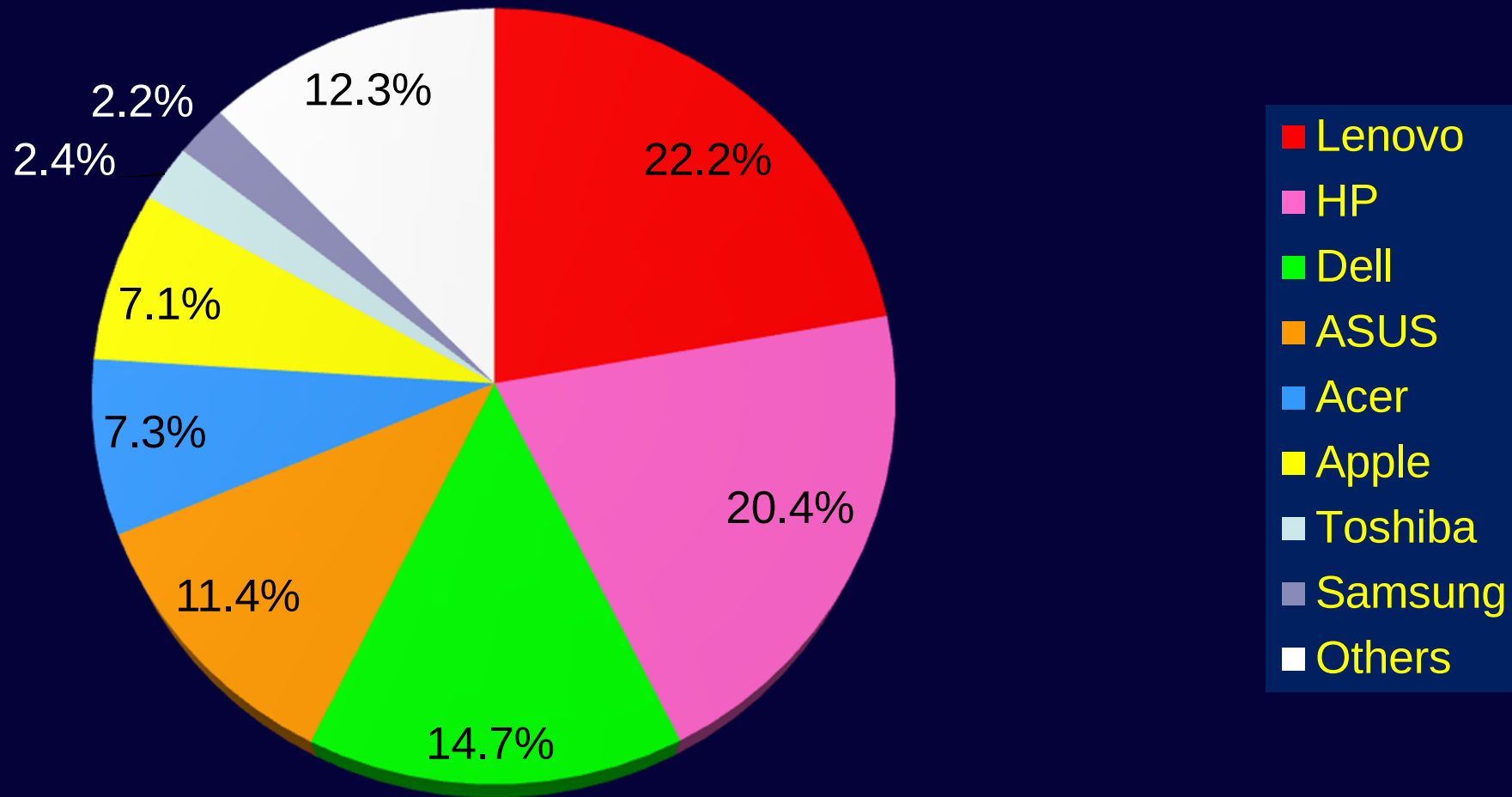
	2014	2015	2016	2017	2018
■ Semiconductor Capital Spending	64,570	64,063	62,795	65,529	70,010
■ Wafer-Level Manufacturing Equipment	33,684	33,248	32,642	34,898	37,641
■ Wafer Fab Equipment	31,953	31,485	30,842	32,930	35,443
■ Wafer-Level Packaging & Assembly Equipment	1,731	1,763	1,800	1,967	2,198

Semiconductor Photomask Market



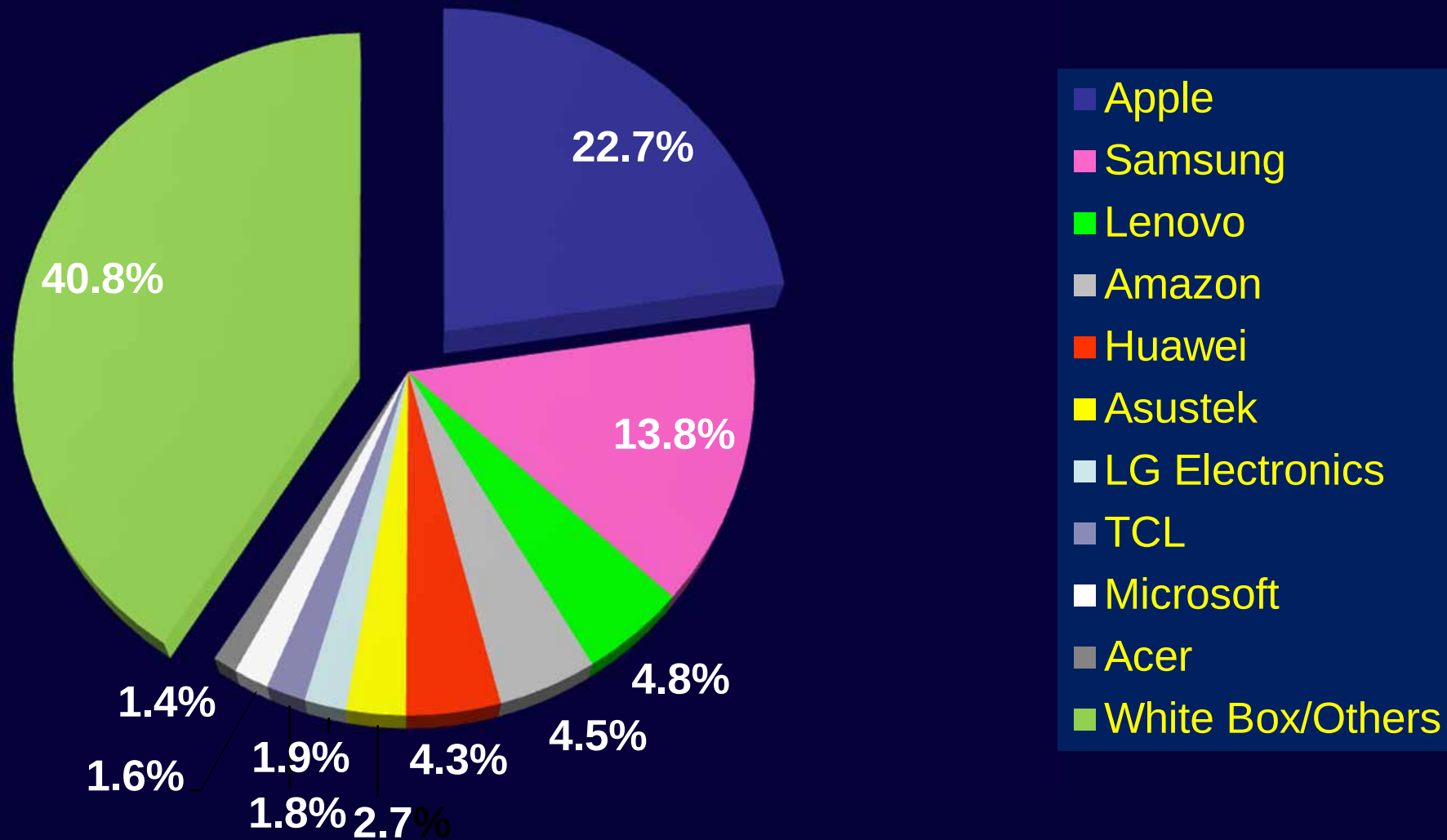
SEMI 5/16 & prior reports

Global Notebook Computer Market Share 1Q'16



1Q'16 Total: 35.62 Million Units

Global Tablet Shipments 1Q'16



TOTAL: 44.89 Million Units