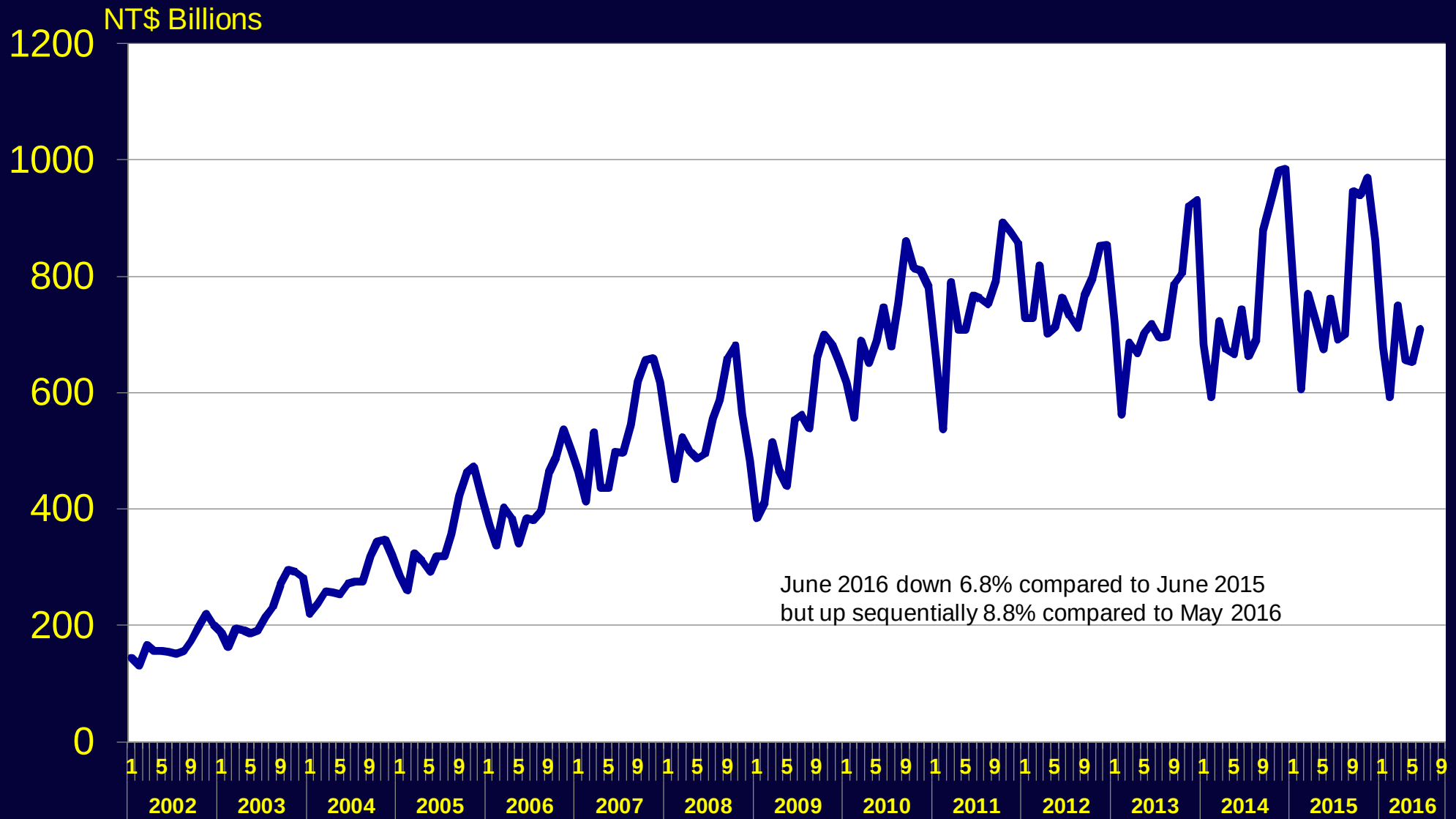


Chart 1

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

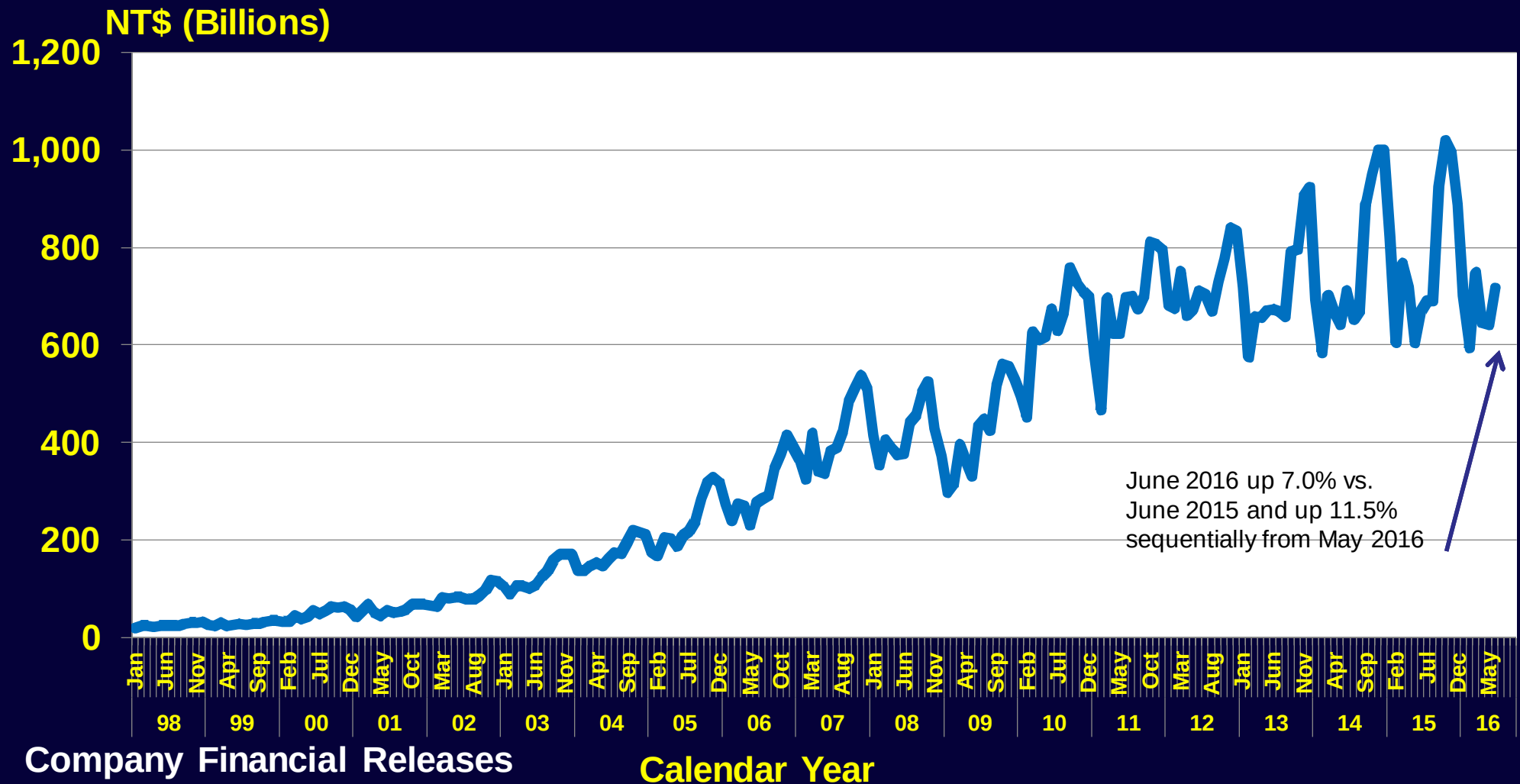


Taiwan listed companies, often with significant manufacturing in China

Chart 2

Taiwan ODM Companies

Composite Sales of 11 Large Manufacturers



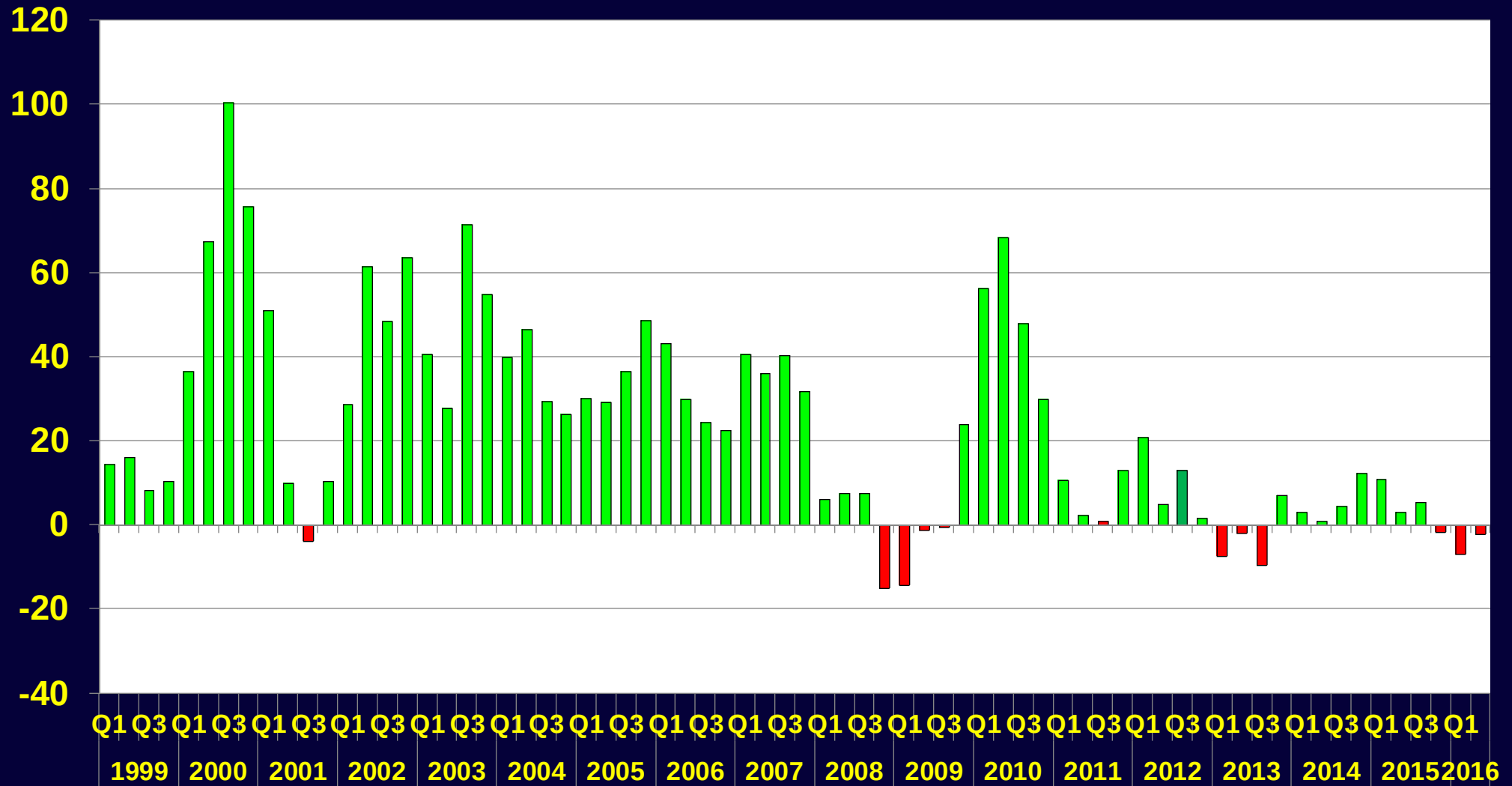
Asustek Computer, Chei Mei, Compal Electronics, Foxconn, Chimei Innolux, Inventec, Inventec Appliance, Lite On Technology, Mitac International, Pegatron, Quanta Computer, Wistron, Chei Mei Display replacing Chei Mei & Innolux Display 3/10 & later

Chart 3

Large ODM Companies

Composite of 10 Public Manufacturers

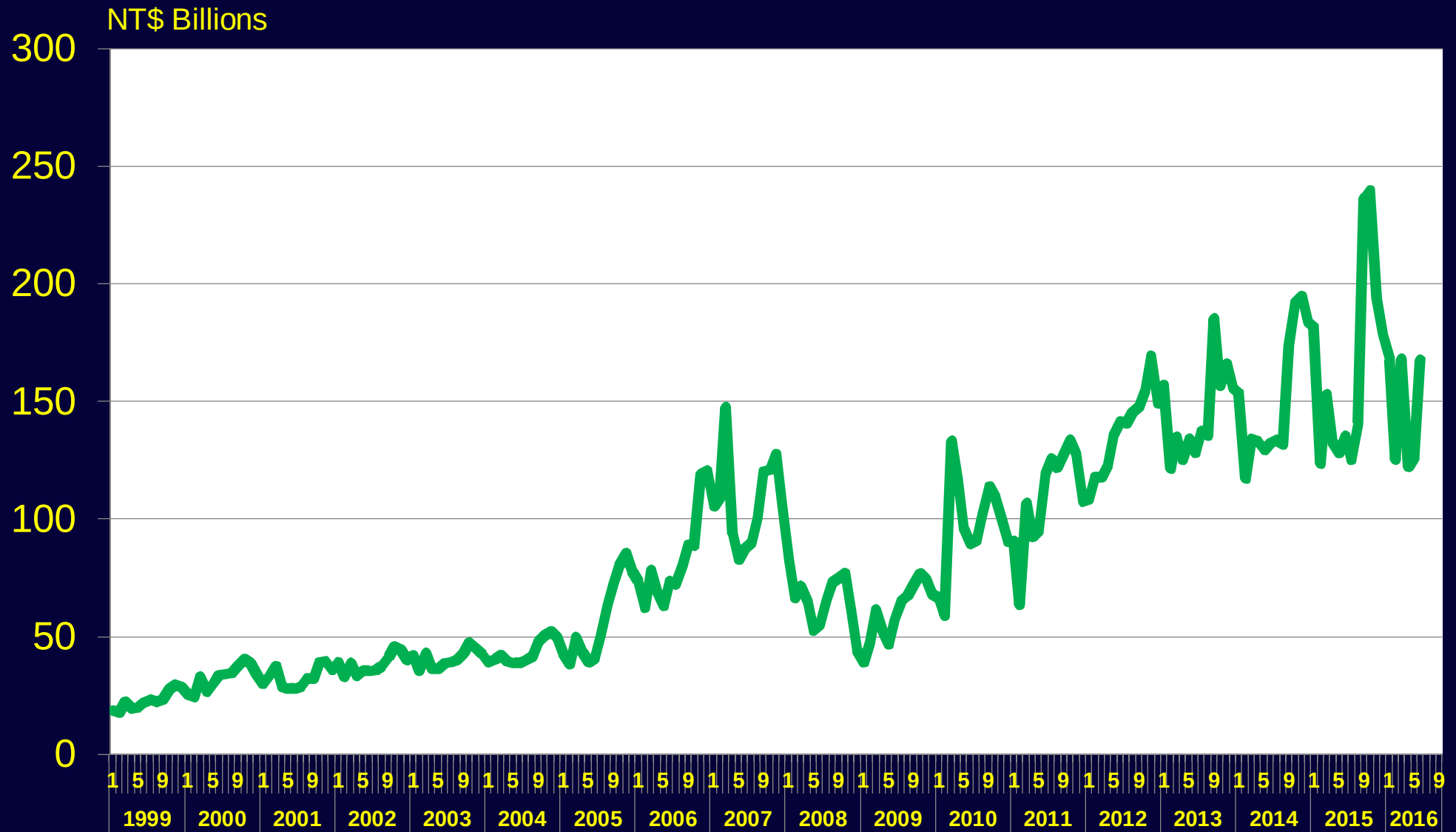
Quarterly Revenue Growth



Asustek Computer, Compal Electronics, Foxconn, Chimei Innolux, Inventec, Inventec Appliance, Lite On Technology, Mitac International, Pegatron, Quanta Computer, Wistron

Chart 4

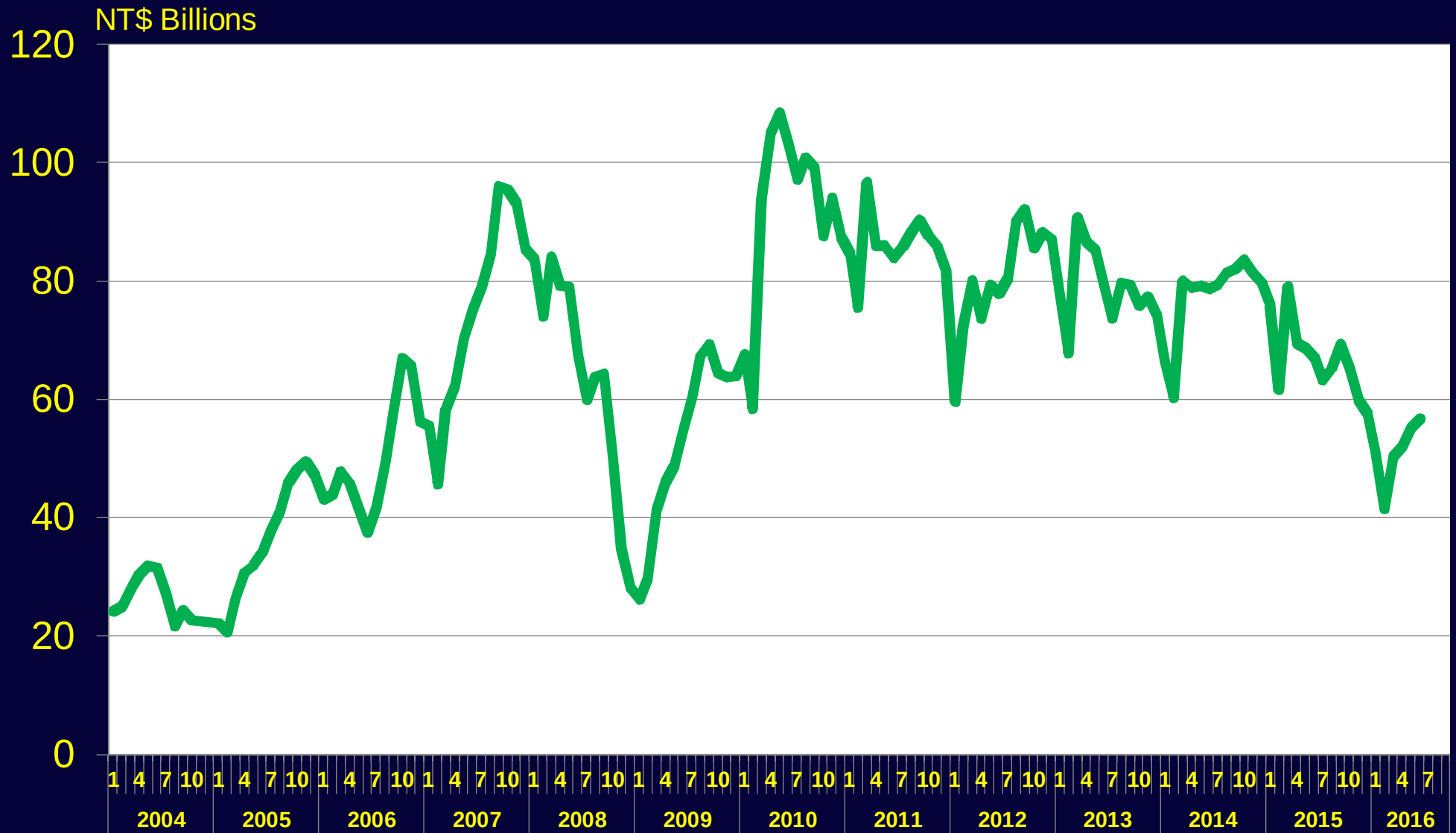
Taiwan/China Motherboard Vendor Sales Composite of 22 Manufacturers



Taiwan listed companies, often with significant manufacturing in China

Chart 5

Taiwan Display Producers Composite of 6 TFT-LCD Panel Manufacturers



Taiwan listed companies, often with significant manufacturing in China

Chart 6

Taiwan Wafer Foundry Composite vs. Global Semiconductor Revenues

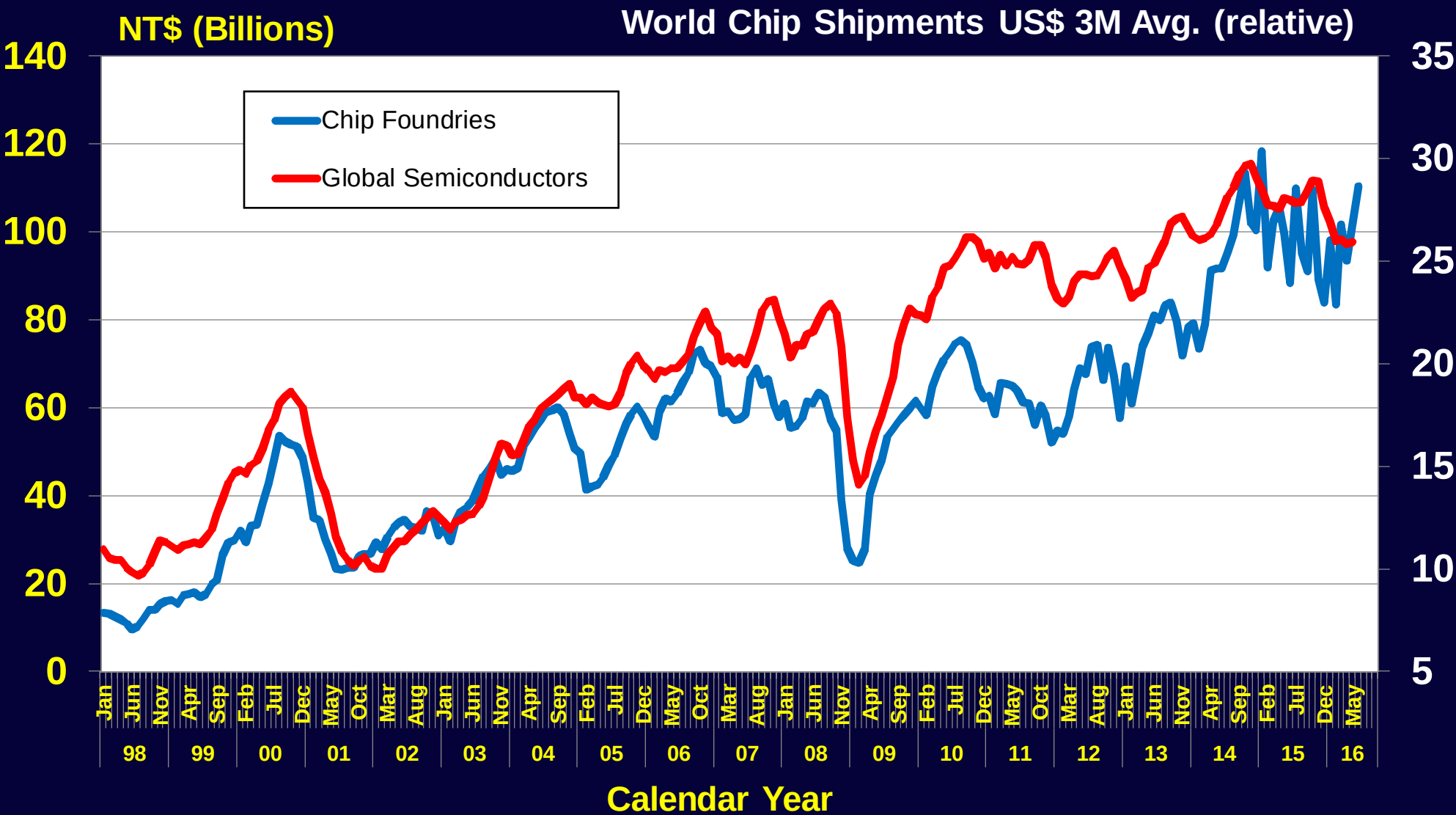


Chart 7

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

Chart 8

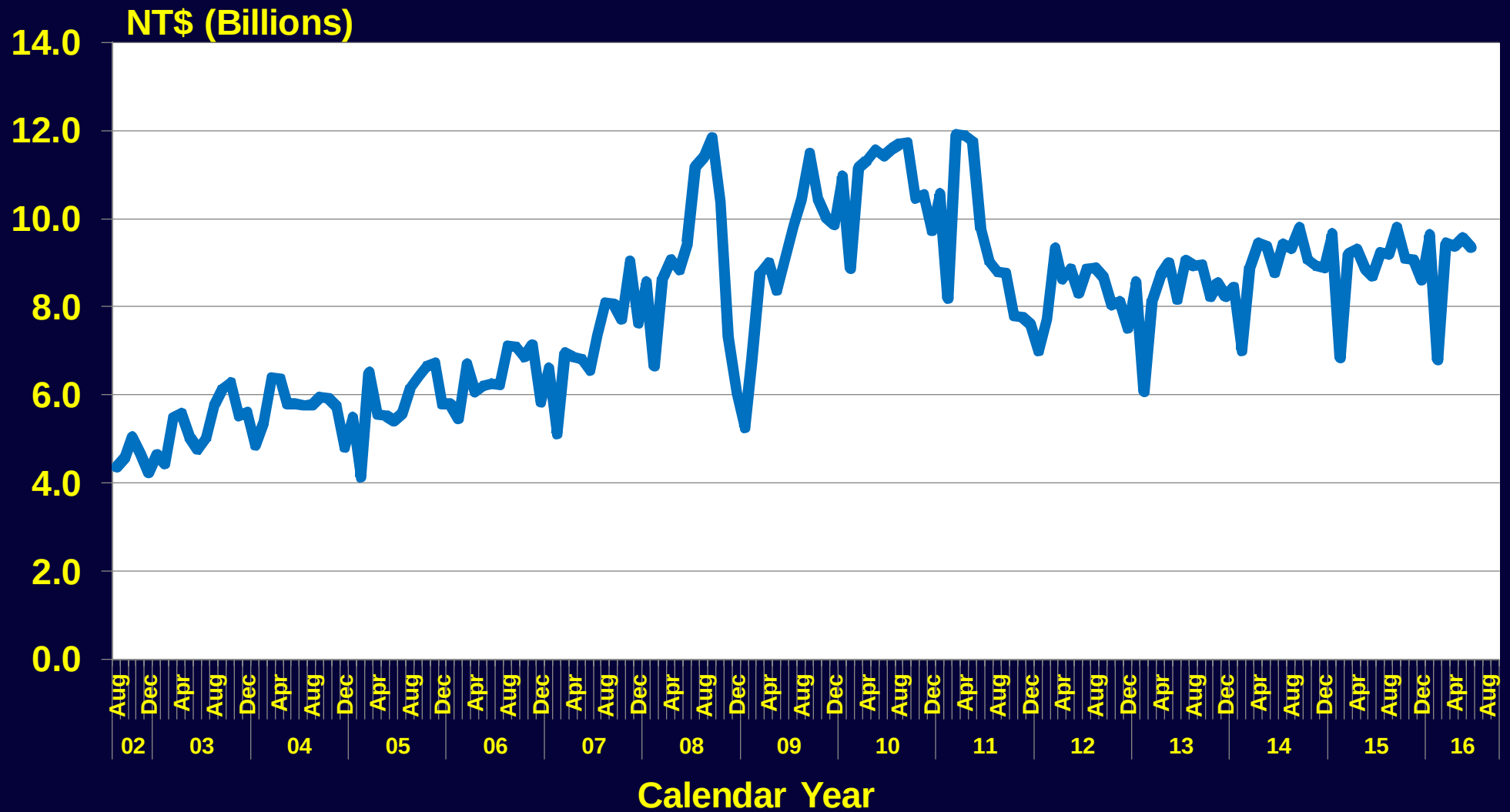
Taiwan Memory Companies Composite of 8 Manufacturers



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

Chart 9

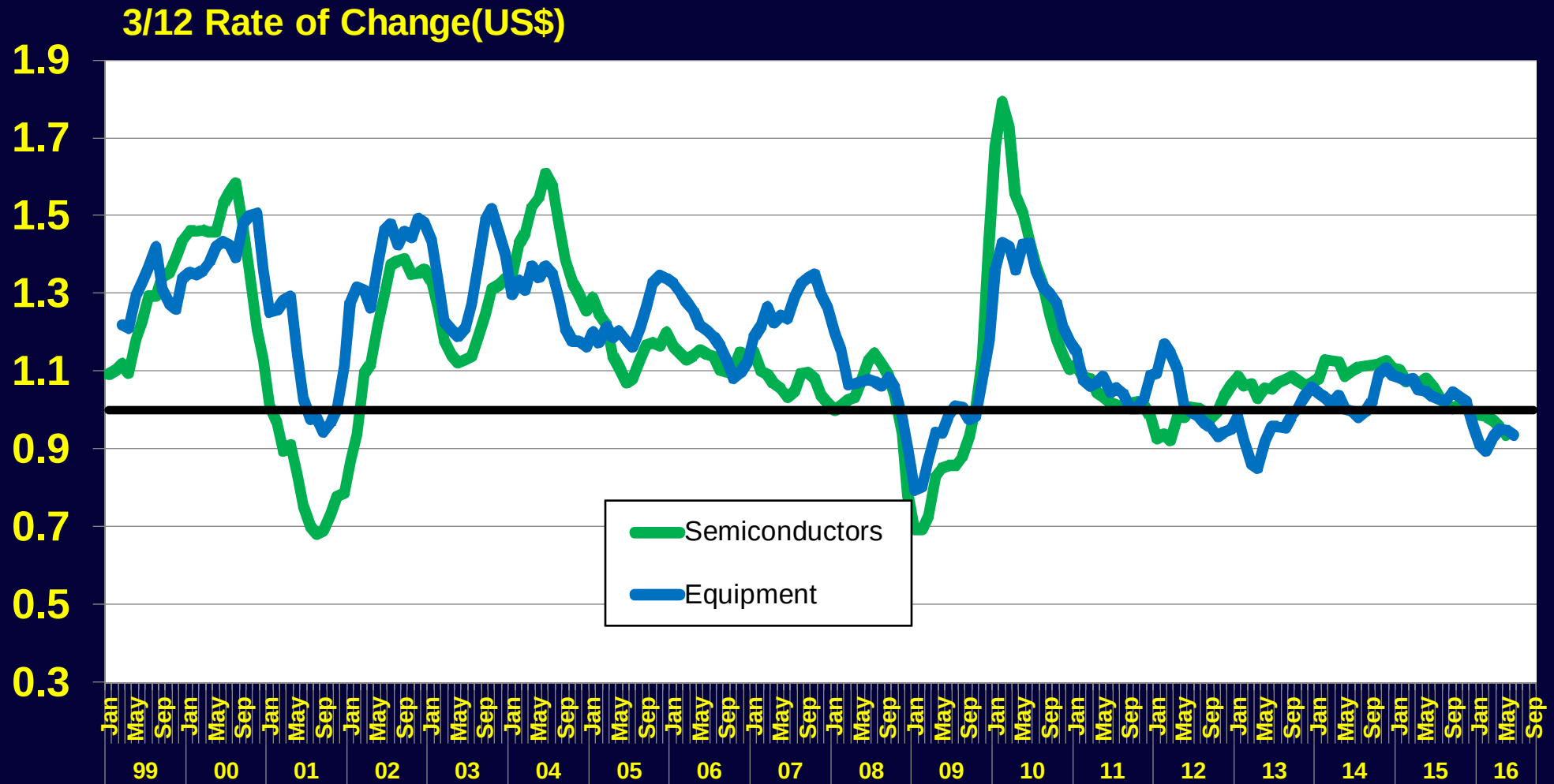
Taiwan Passive Component Companies Composite Sales of 25 Manufacturers



Chilsin Electronics, Cyntec, (FCE) Feei Cheng Enterprise, Holy Stone Enterprise, 3H (Honey Hope Honest 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)

Chart 10

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

Chart 11

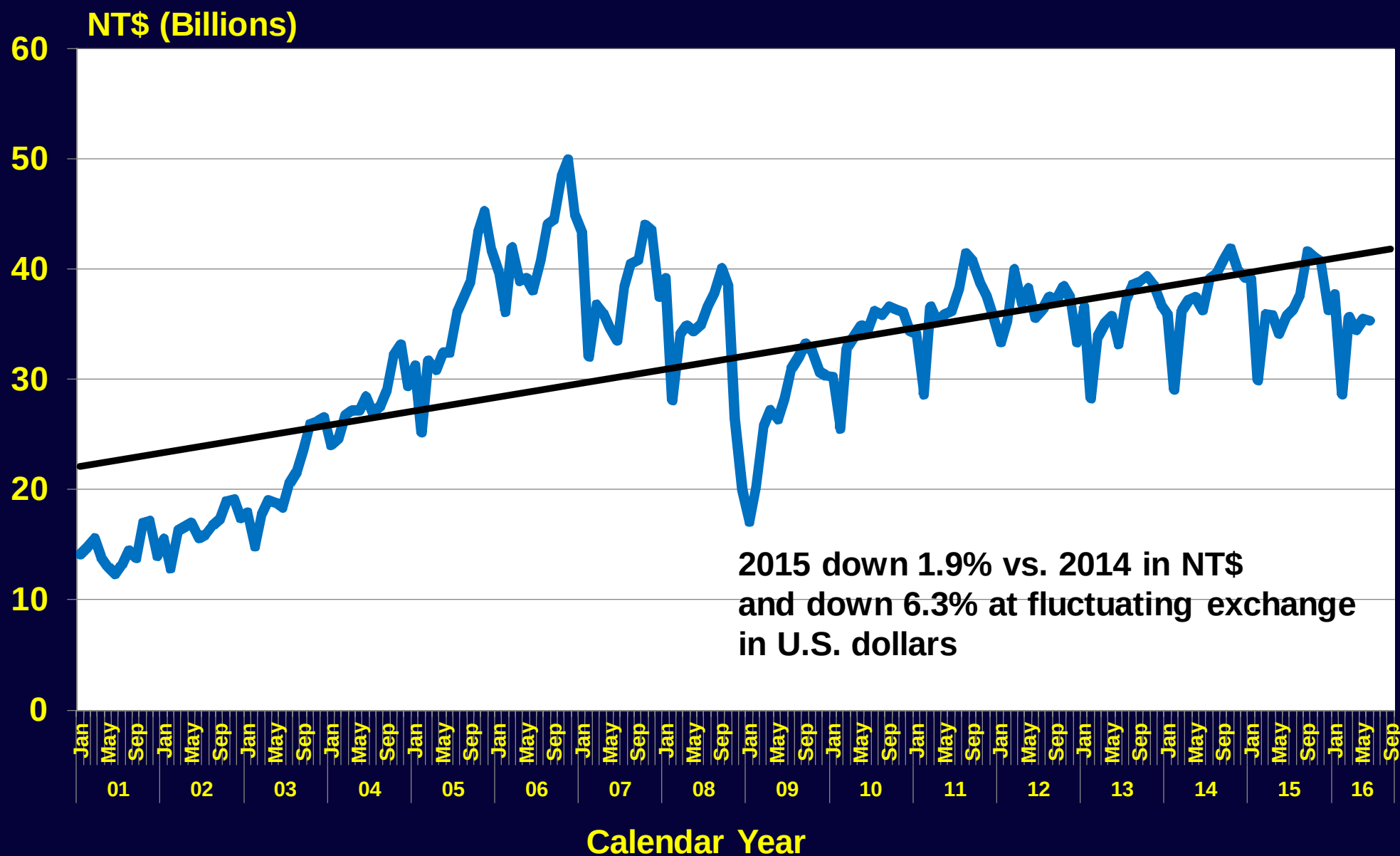
Taiwan Solar/Photovoltaic Panel Companies Composite of 27 Manufacturers



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

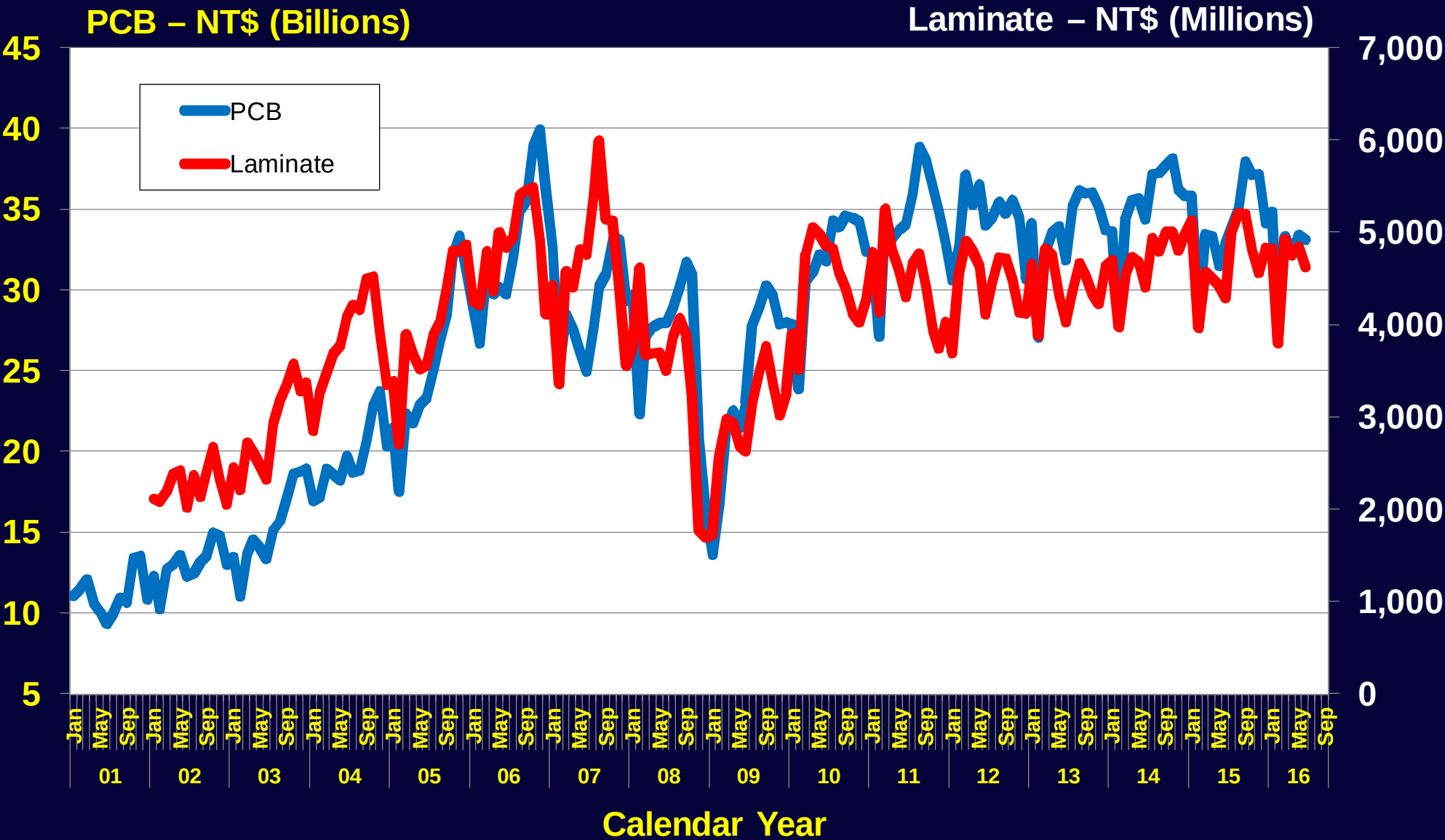
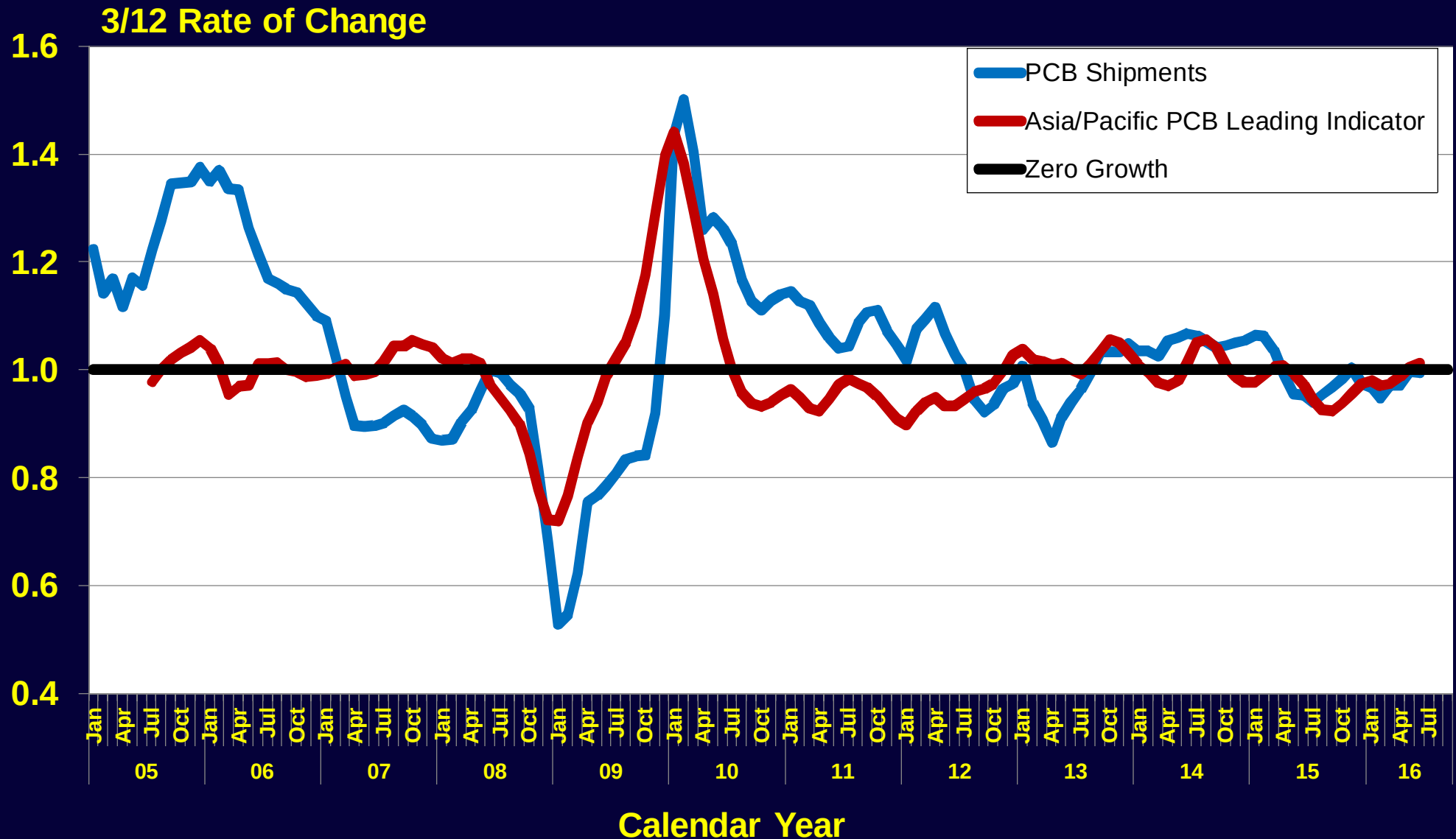


Chart 14

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



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	5/16	104.2	102.6
Components & Boards	5/16	102.7	103.8
Components	5/16	102.8	102.2
Wiring Devices	5/16	104.2	114.7
Loaded Electronic Boards	5/16	103.7	109.1
Office Equipment	5/16	91.2	97.2
Consumer Electronics	5/16	84.3	75.6
Electric Domestic Appliances	5/16	102.6	101.2
Electronic Instruments	5/16	103.5	102.2
Medical Electronics	5/16	100.4	87.5
Motor Vehicles	5/16	106.6	104.0
Air & Space Aircraft	5/16	104.0	105.0
Semiconductor Shipments (Eur) to Europe	5/16	99.6	88.4
Industrial Production	5/16	102.0	101.3

Chart 16

Euro vs. U.S. Dollar

US\$/Euro

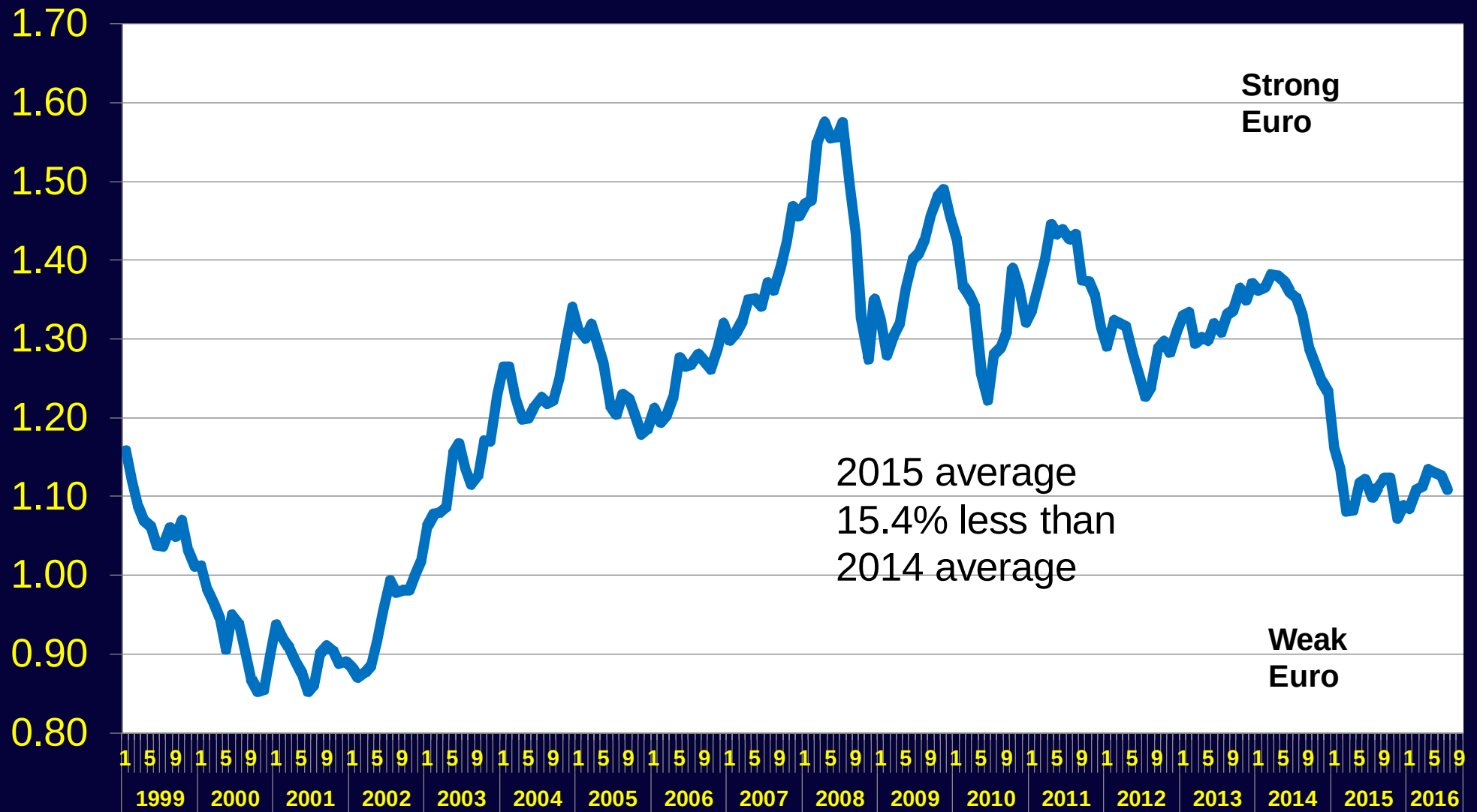
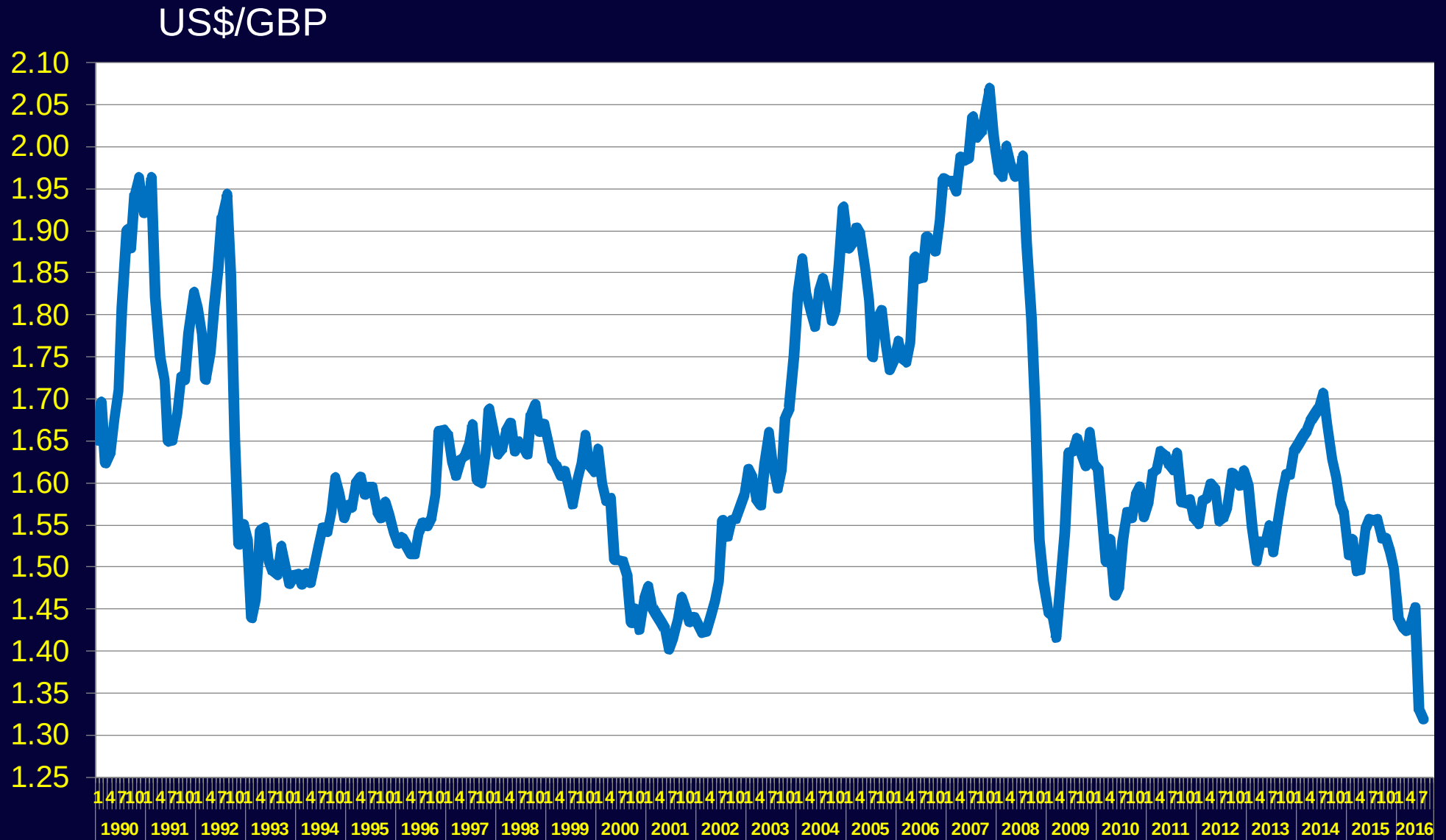


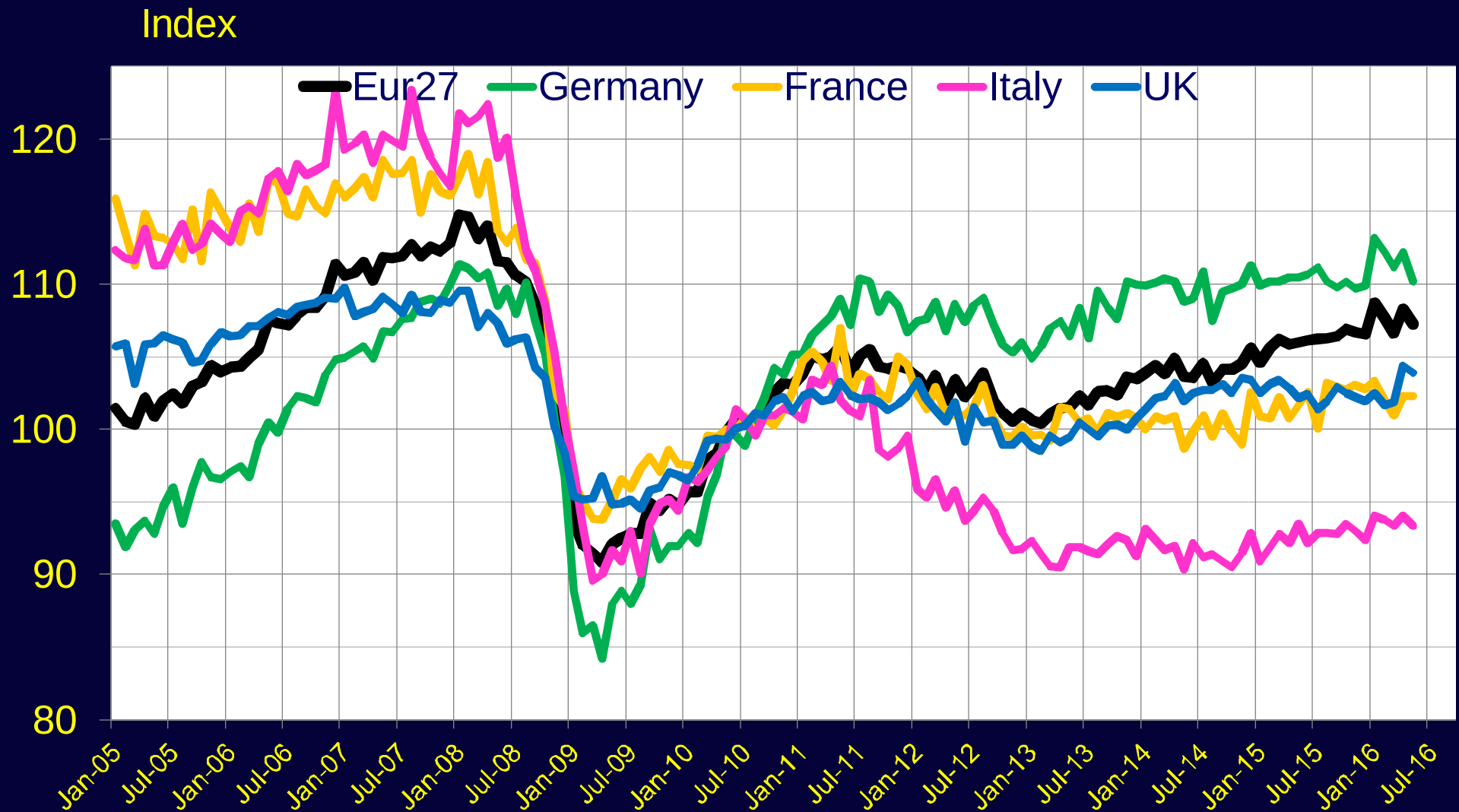
Chart 17

UK Pound vs. U.S. Dollar

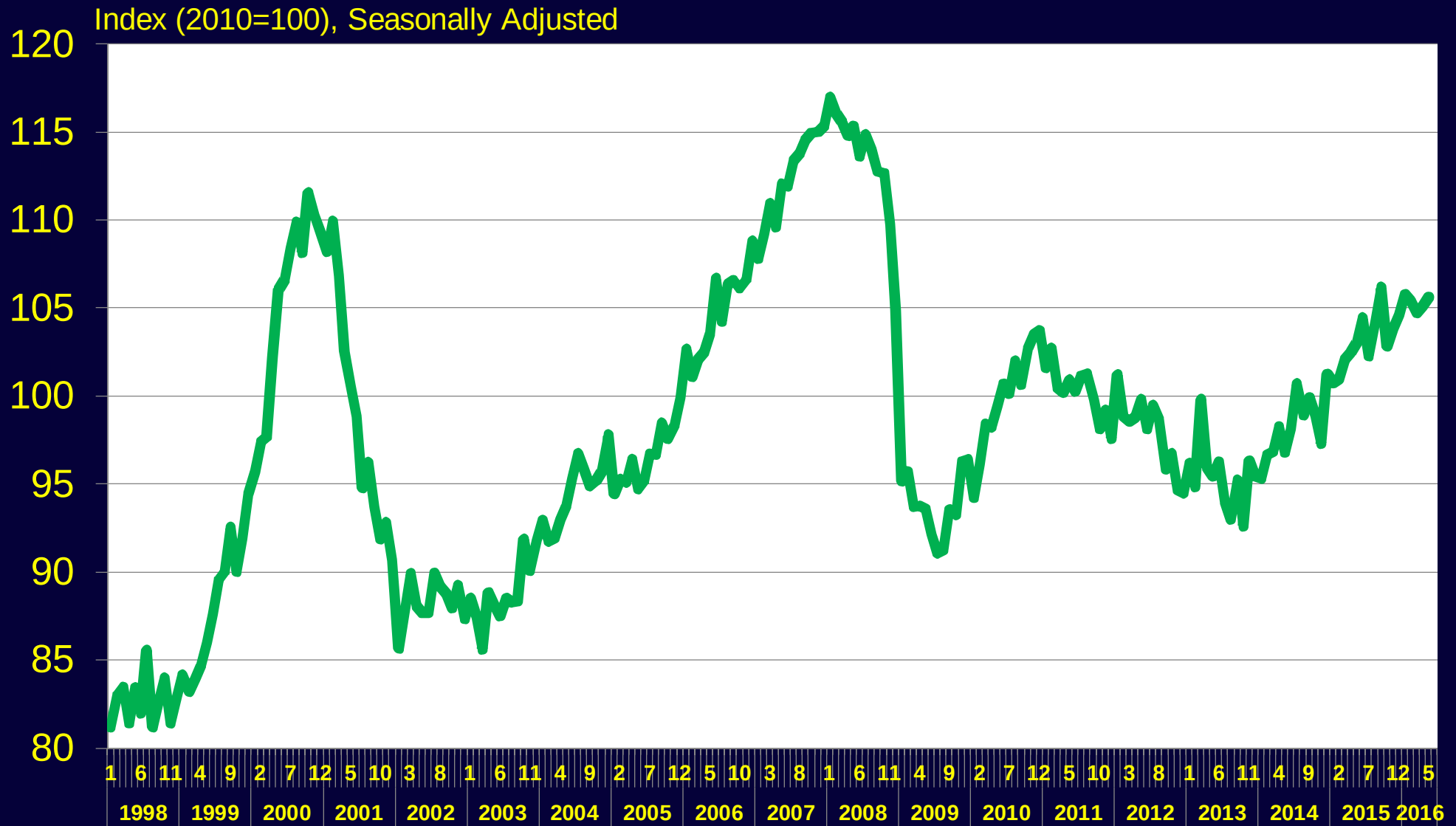


Industrial Production - Europe

Index (2010 Avg. Month = 100, Seasonally Adjusted)



European Computer, Electronic & Optical Products Production



Europe- EU27

Manufacture of computer, electronic & optical products

12/12 & 3/12 Rate of Change

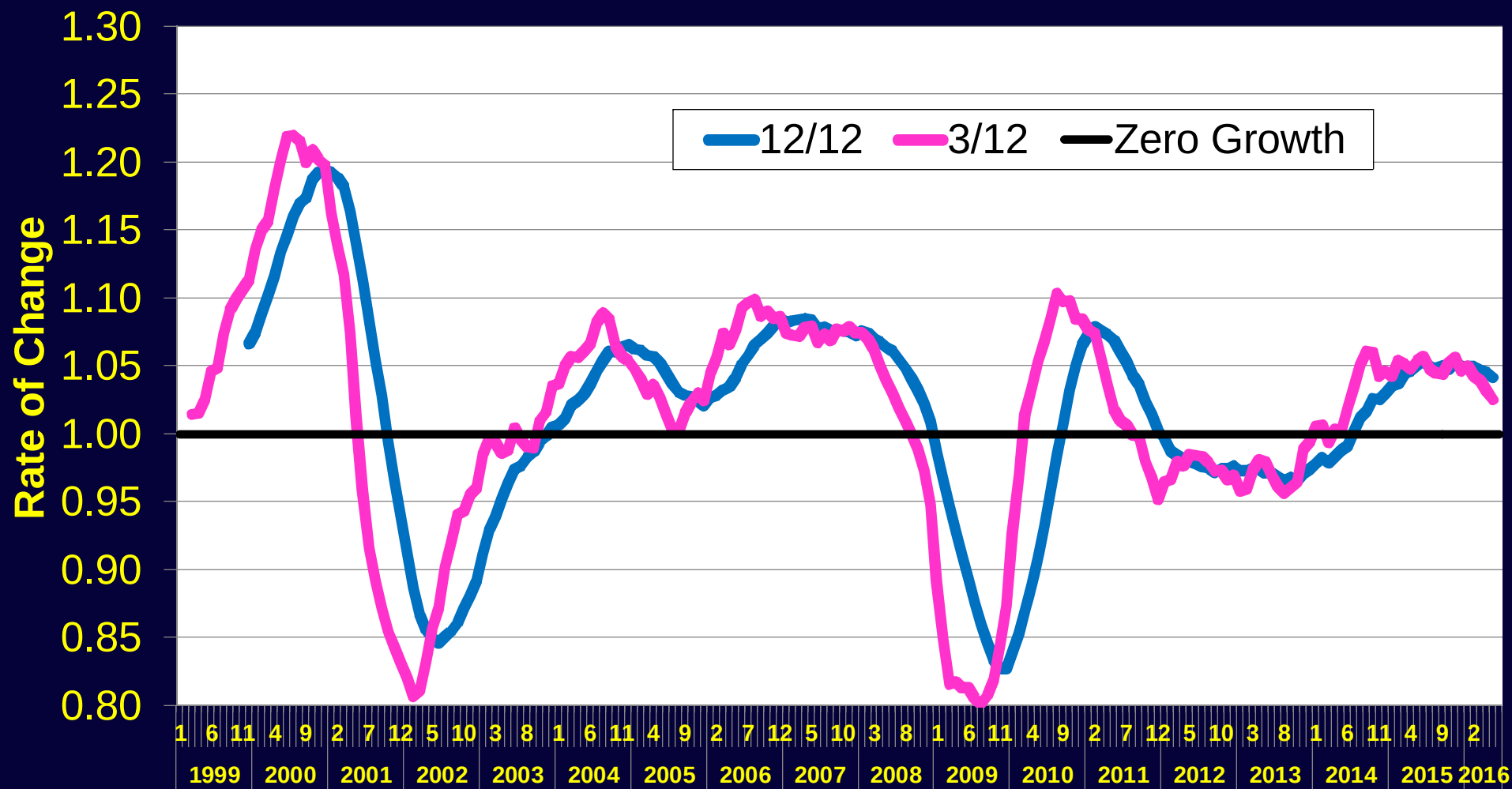


Chart 21

European Motor Vehicle Production

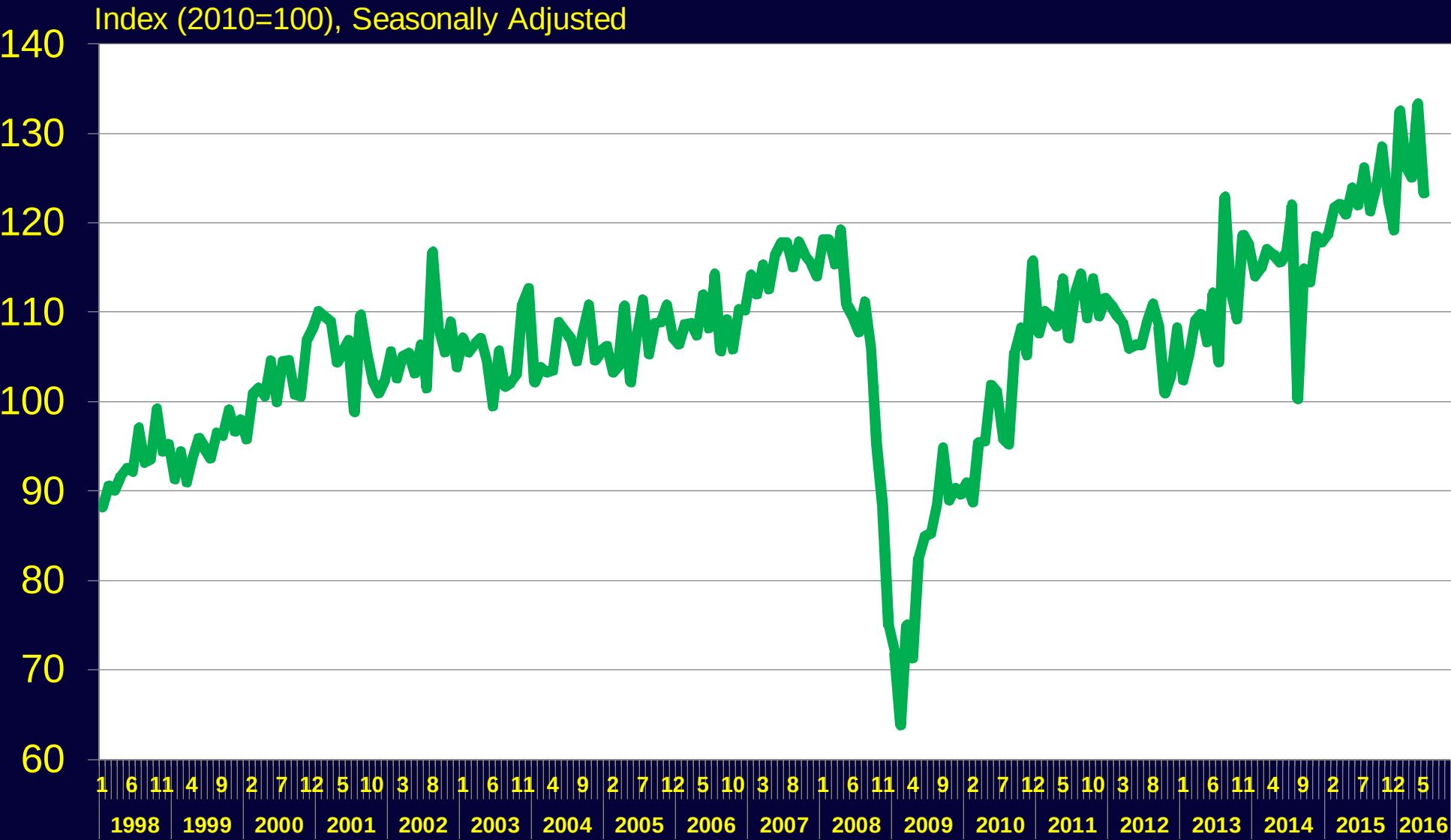


Chart 22

European Production - Aircraft, Spacecraft & Related Equipment

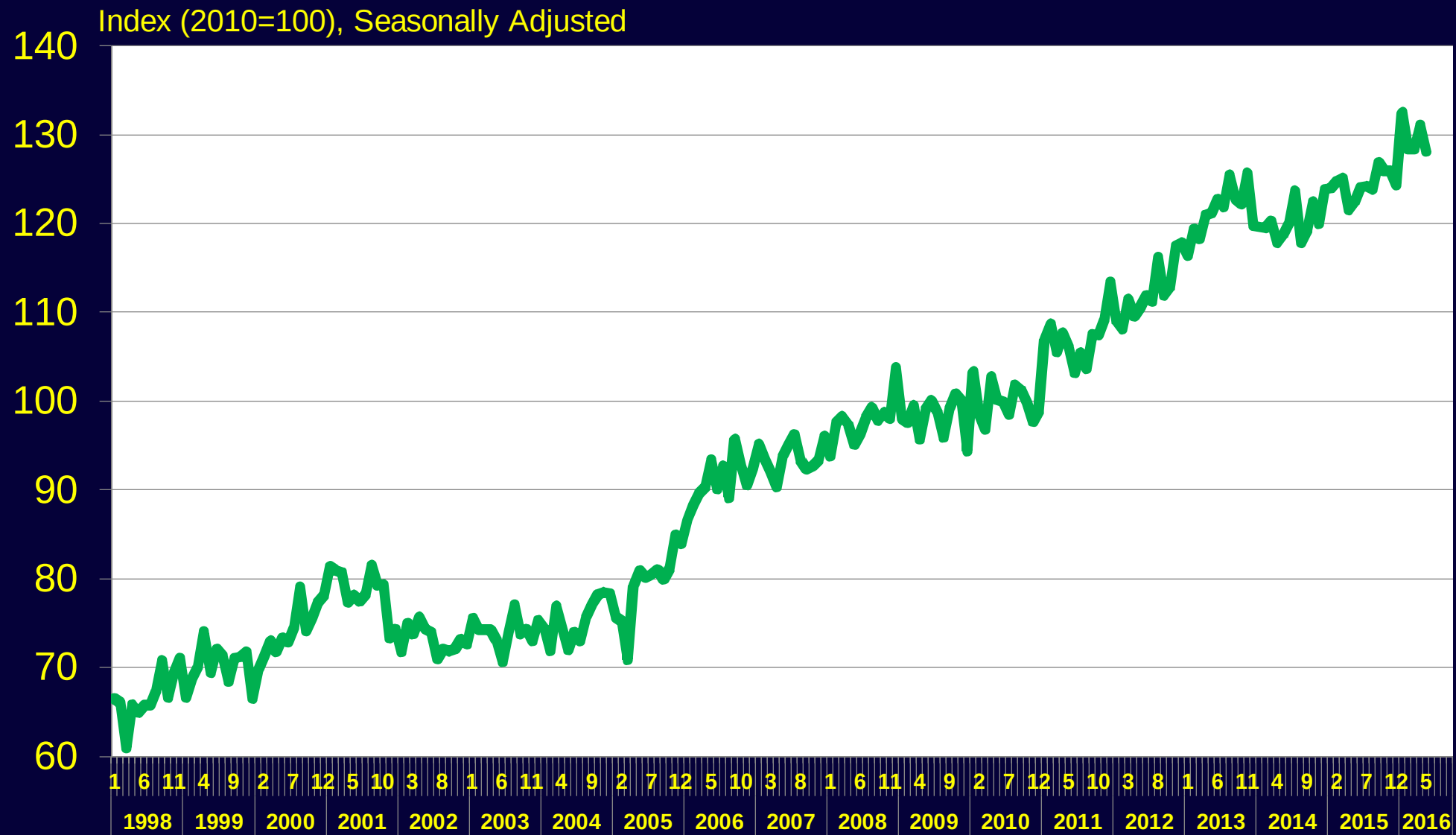


Chart 23

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

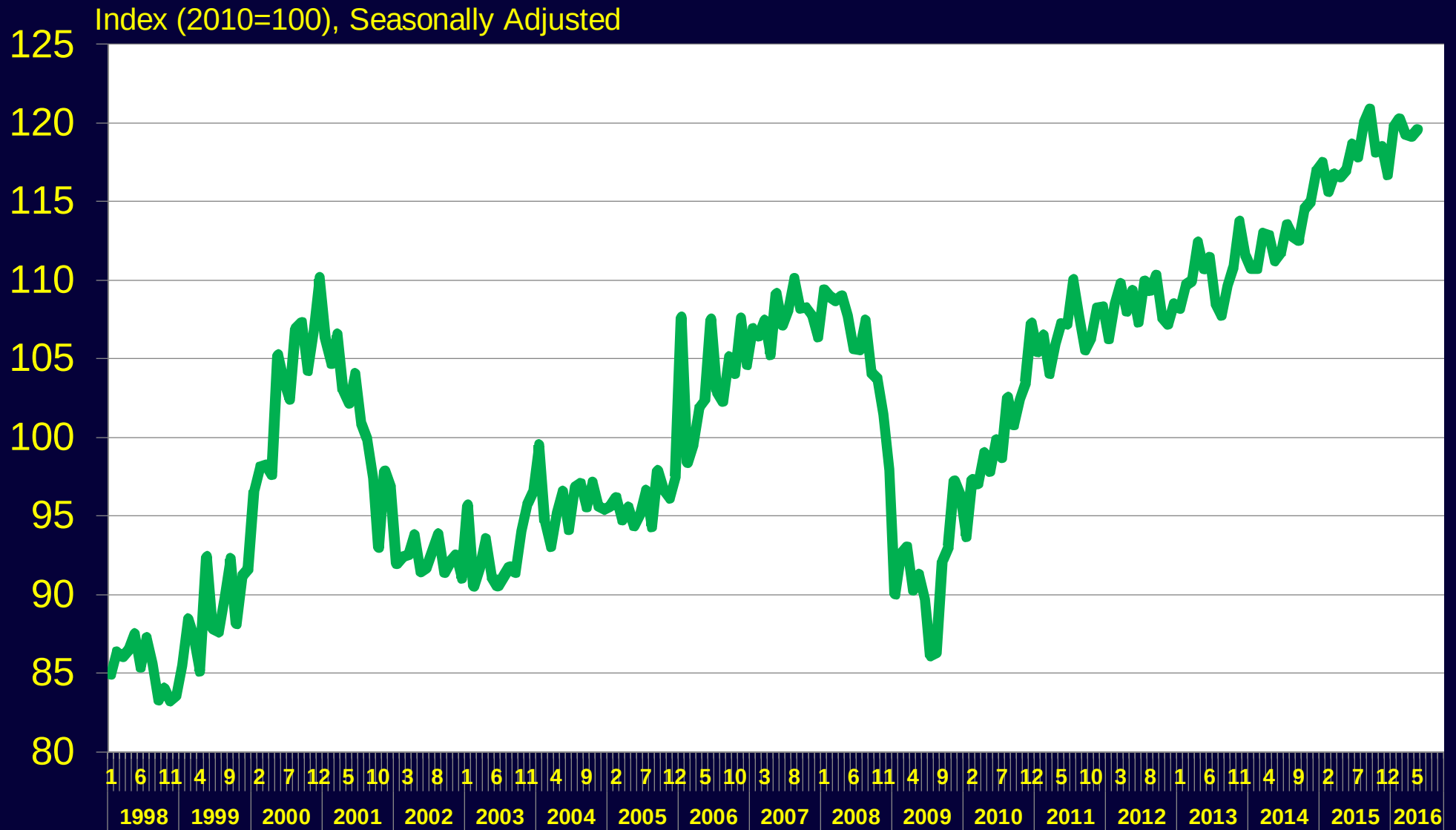


Chart 24

European Production - Irradiation, Electromedical & Electrotherapeutic Equipment

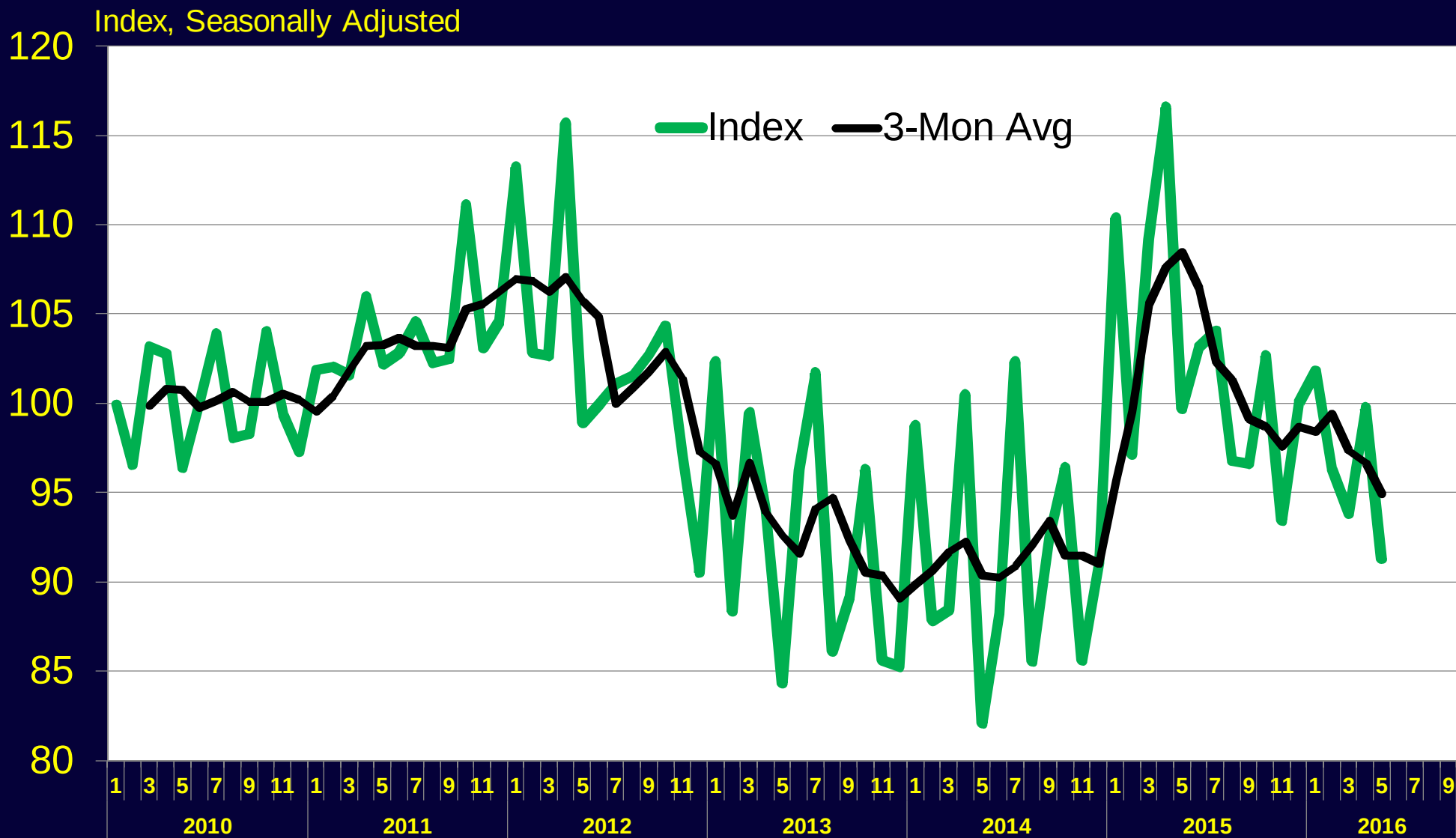


Chart 25

European Loaded Electronic Board Production



European Electronic Wiring Devices

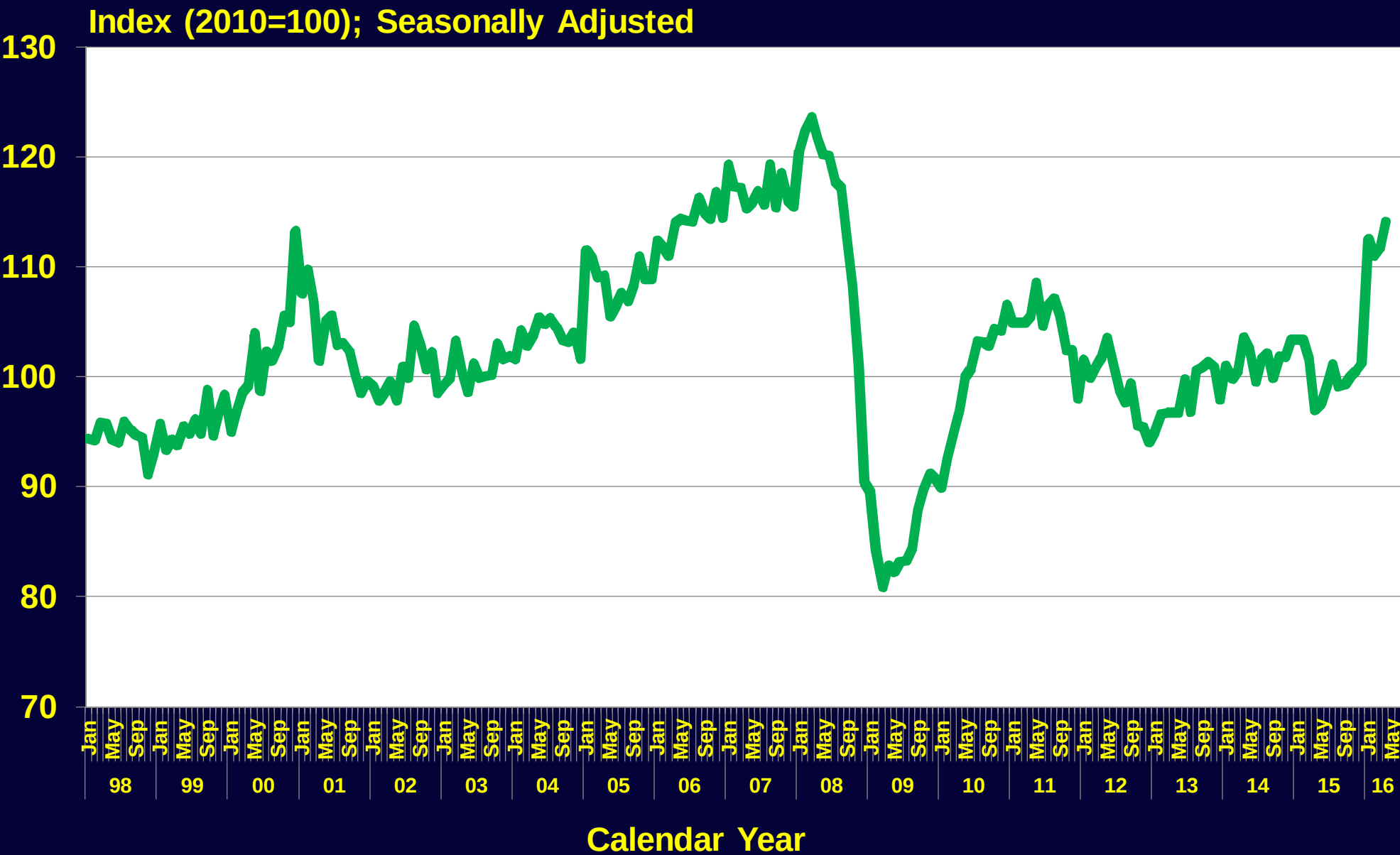
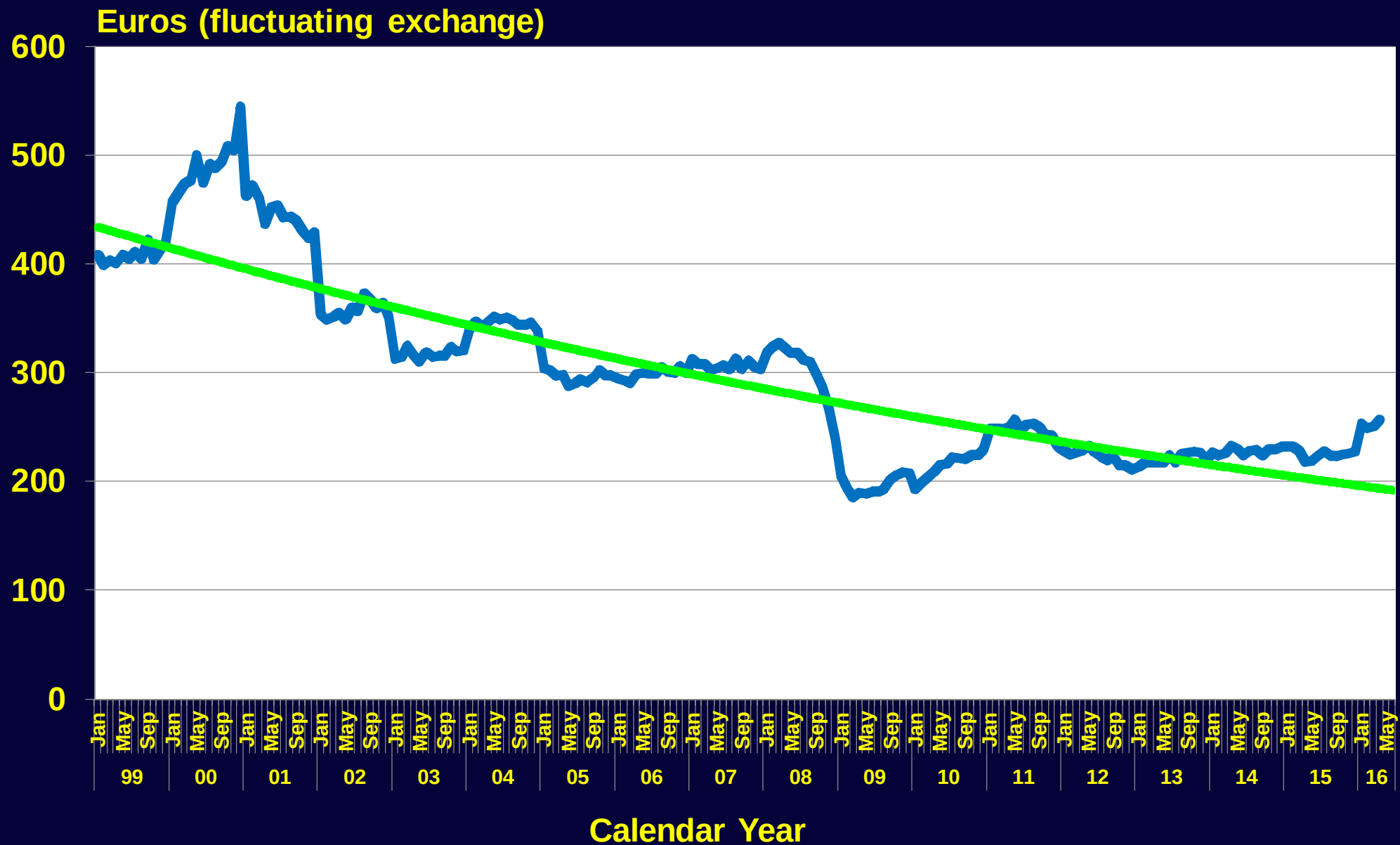


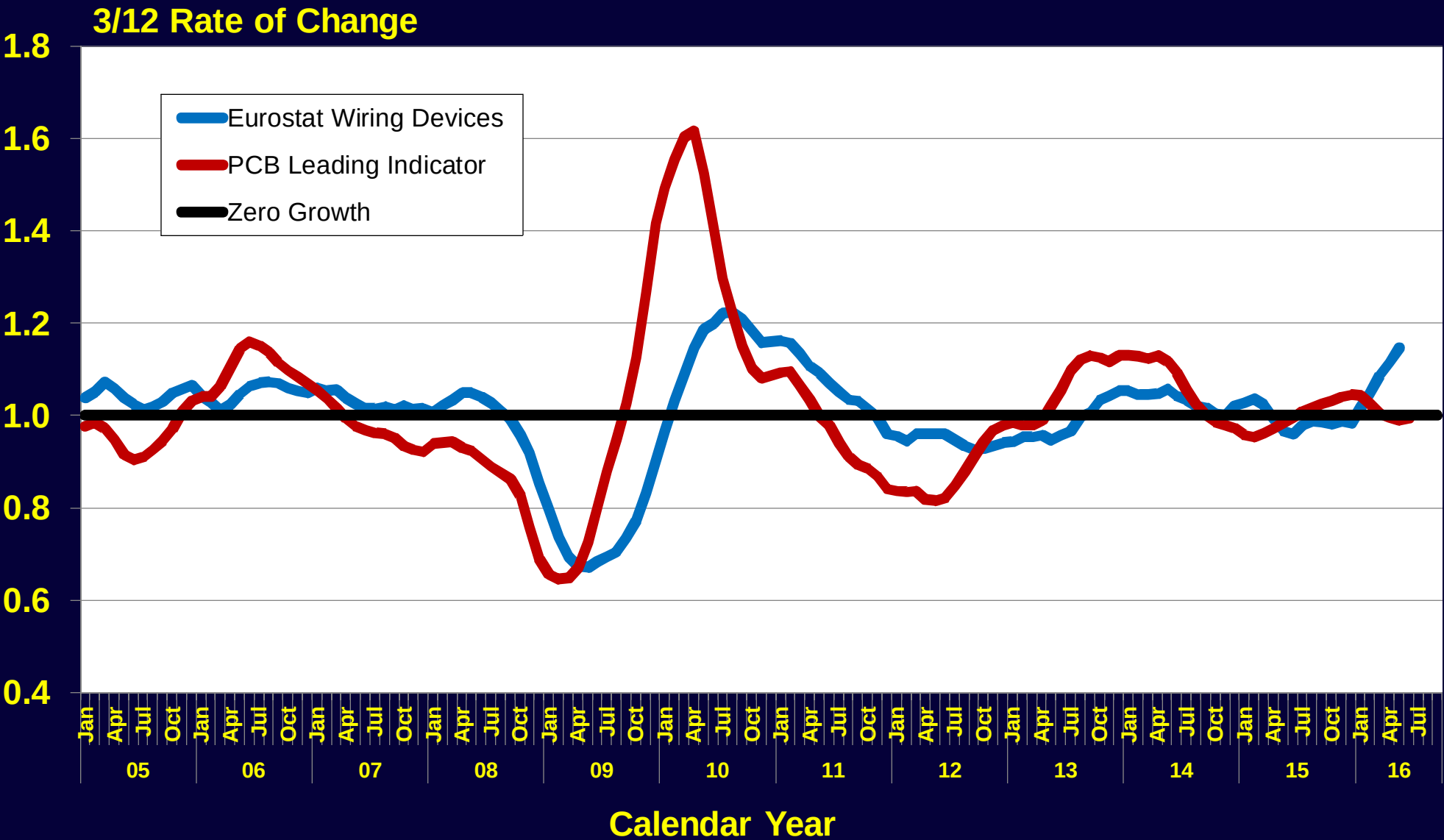
Chart 27

European PCB Monthly Shipments



Source: Custer Consulting Group estimate based upon industry data

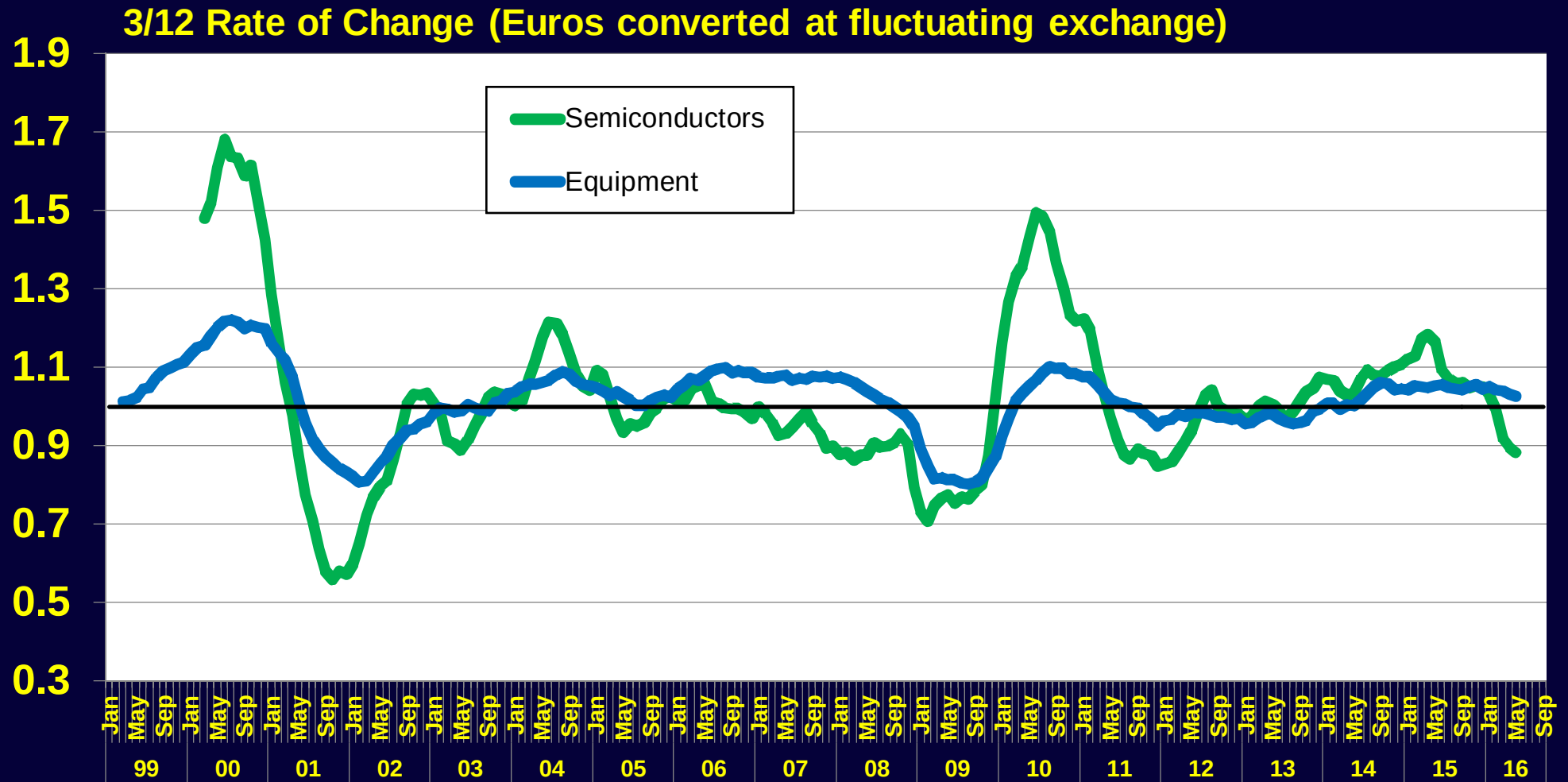
Europe PMI Leading Indicator vs. Europe Wiring Devices



Source: Custer Consulting Group

Chart 29

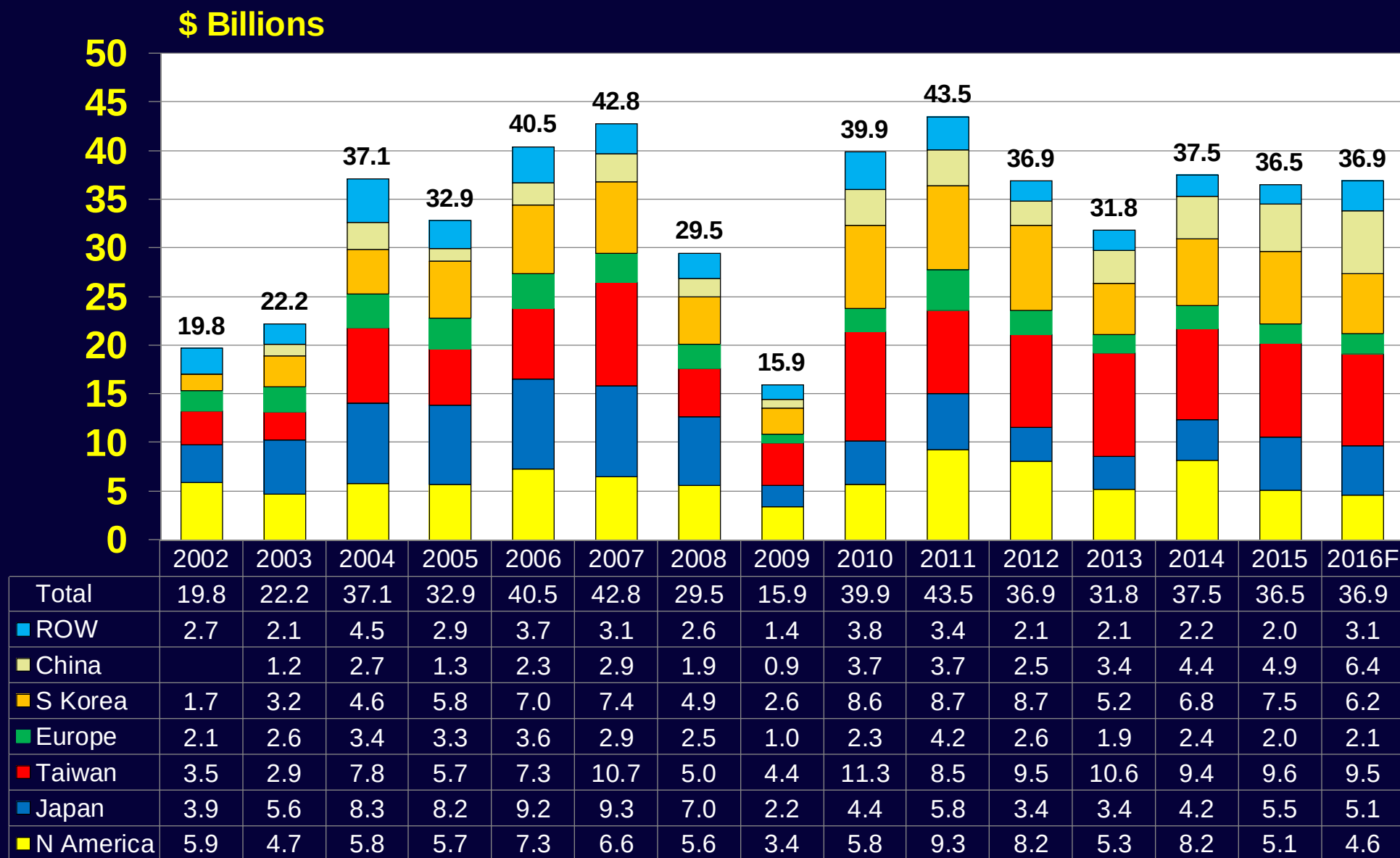
Semiconductor Shipments to Europe vs. European Electronic Equipment Production



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

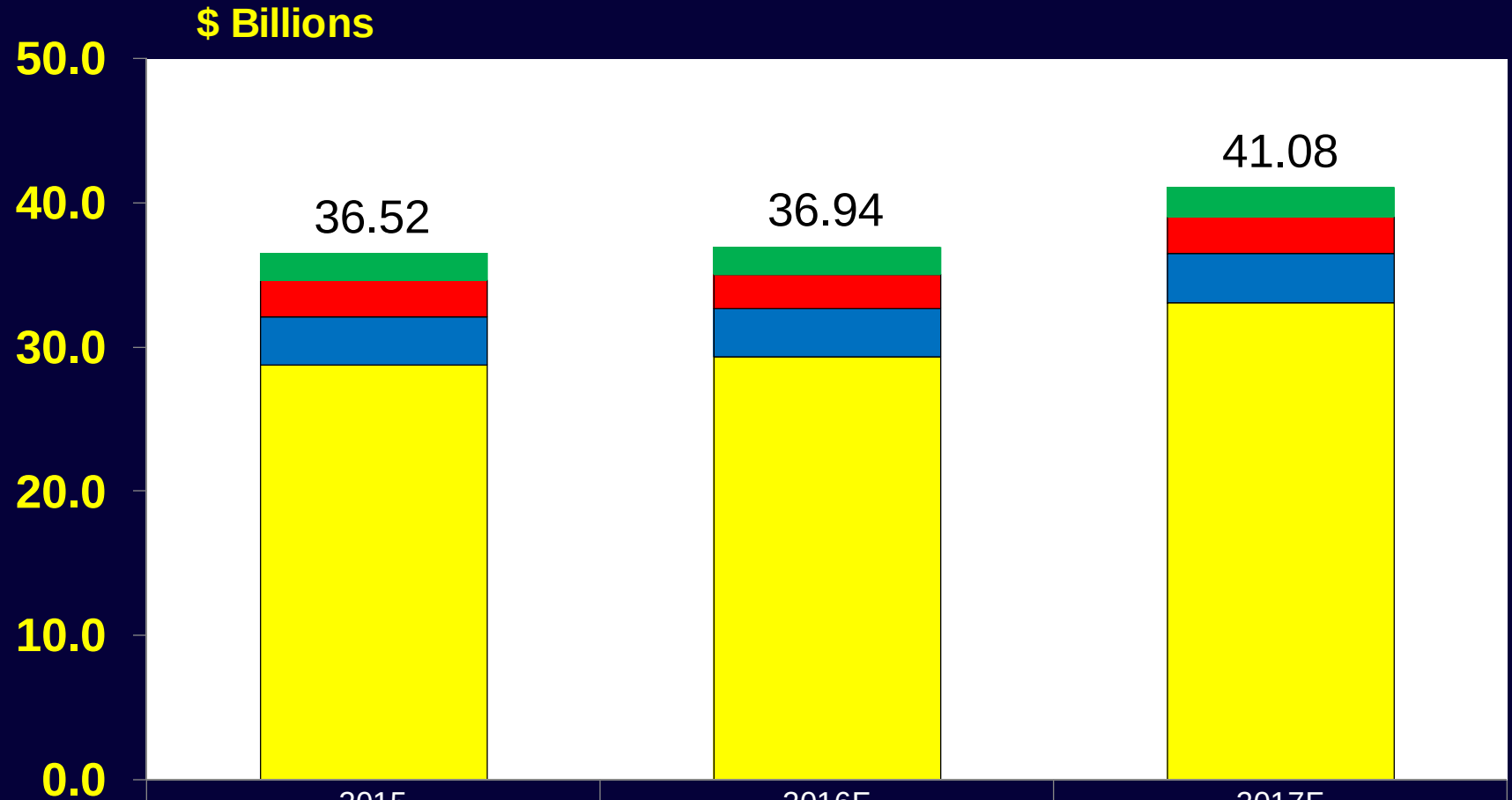
Chart 30

Worldwide Semiconductor Capital Equipment Market by Geography (with forecast)



SEMI 7/16 (and prior reports)

World Chip Equipment Spending by Type

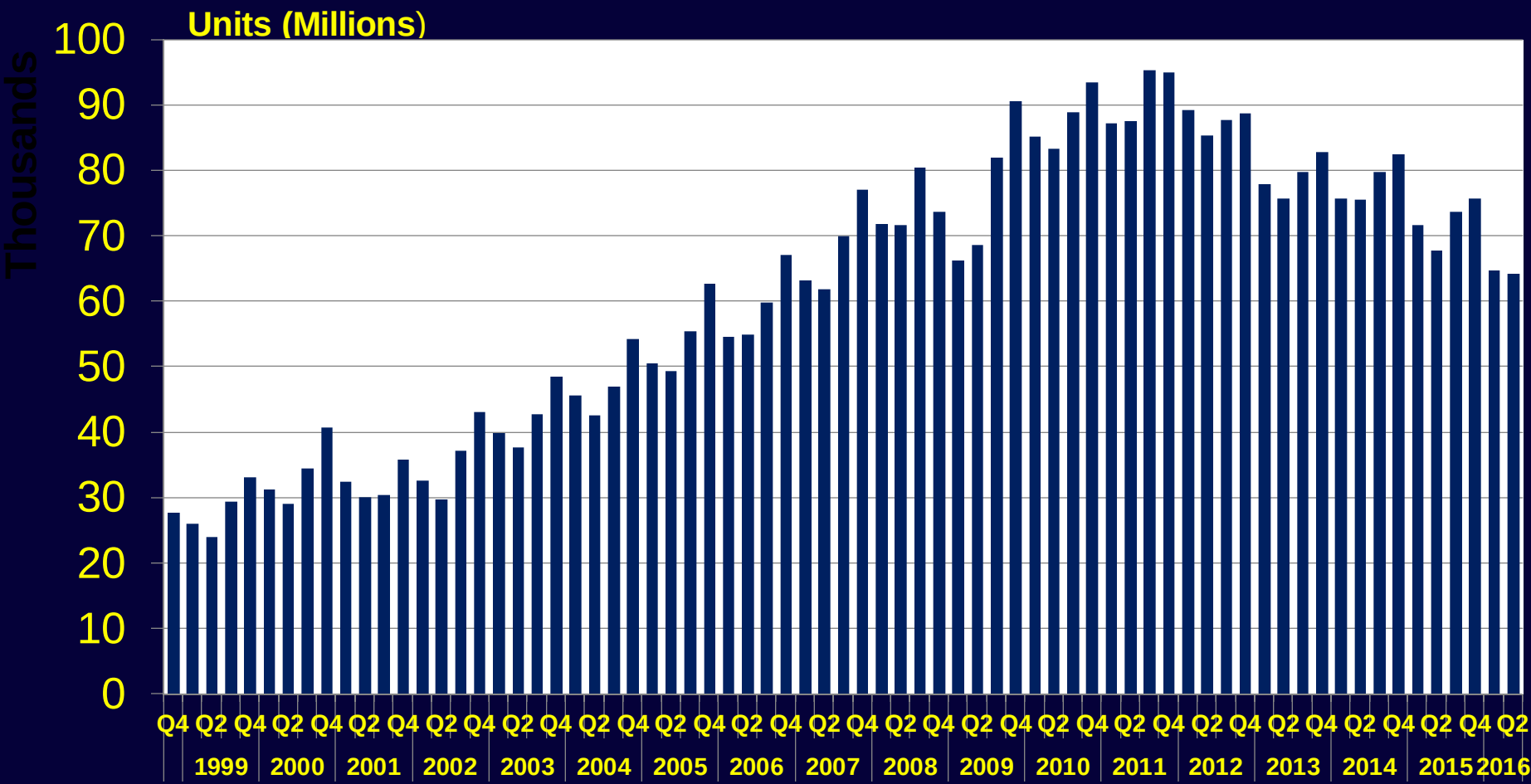


	2015	2016F	2017F
Total	36.52	36.94	41.08
Other Front End	1.90	1.86	2.05
Assembly & Packaging	2.51	2.39	2.48
Test	3.33	3.36	3.46
Wafer Processing	28.78	29.33	33.09

Personal Computer Unit Shipments

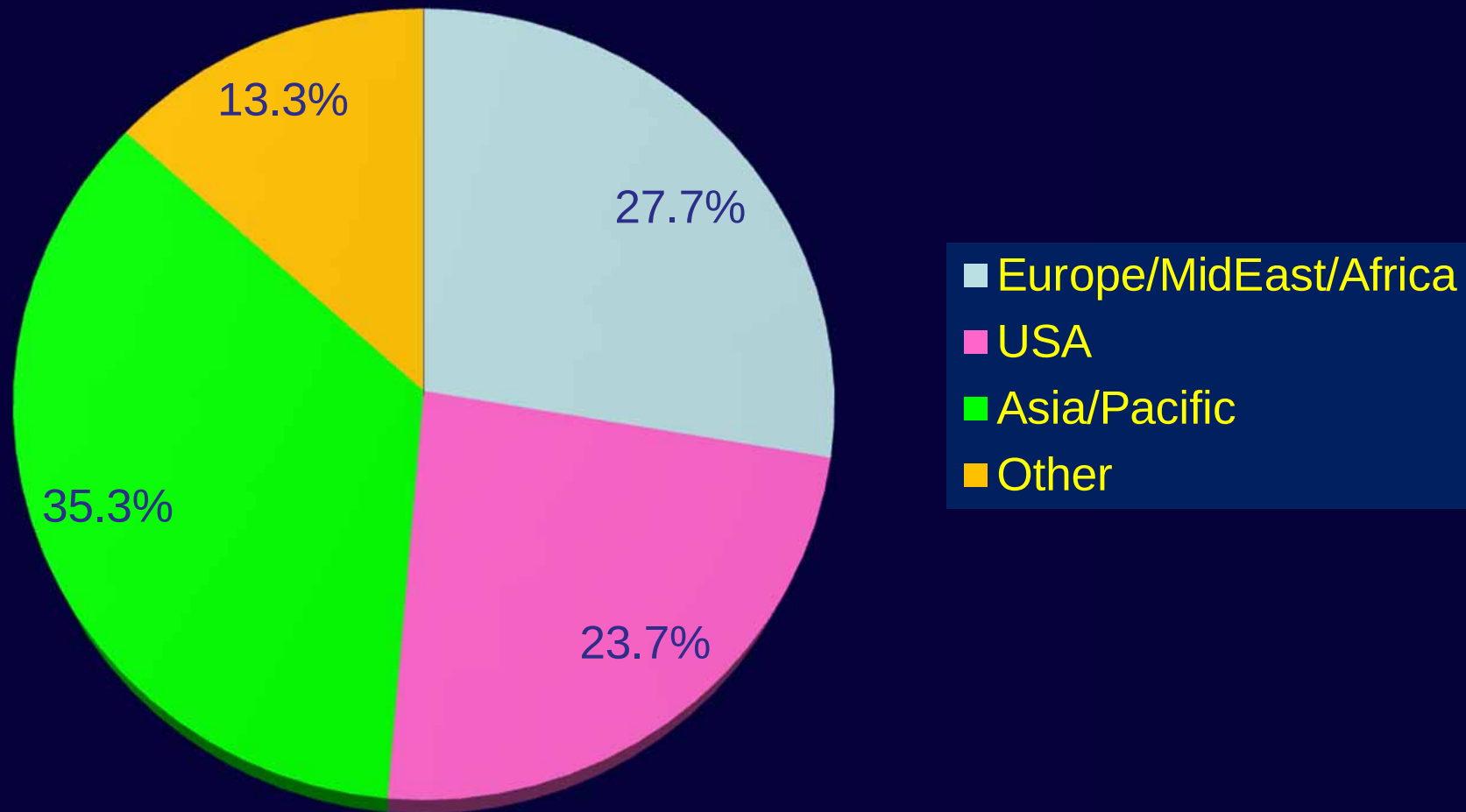
World

Units



Gartner Dataquest 7/16 & prior reports
Server & Media Tablets not included

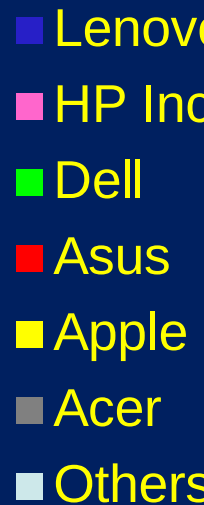
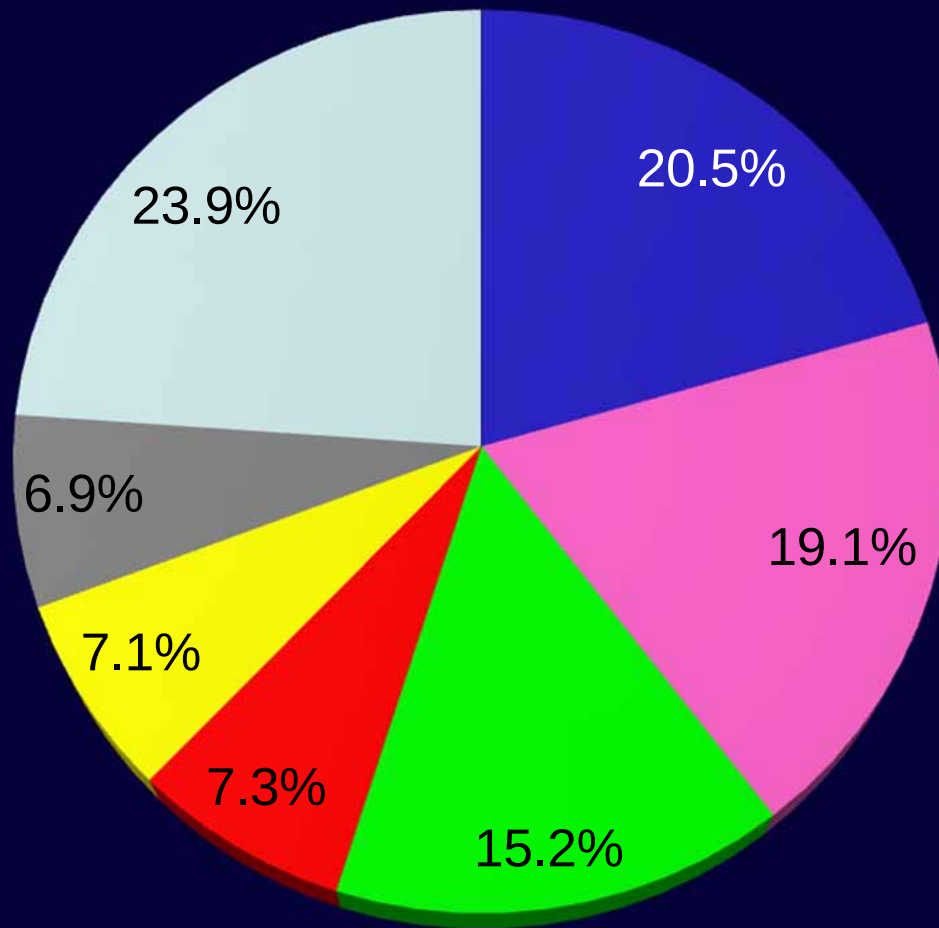
World Personal Computer Market 2Q'16



TOTAL: 64.3 Million Units

Includes desk-based PCs, mobile PCs, mini-notebooks but not Media Tablets

World Personal Computer Market 2Q'16



TOTAL: 64.3 Million Units

Includes desk-based PCs, mobile PCs, mini-notebooks but not Media Tablets

Cellular Handset IC Market



U.S. Industrial Production

Index (2012=100)

