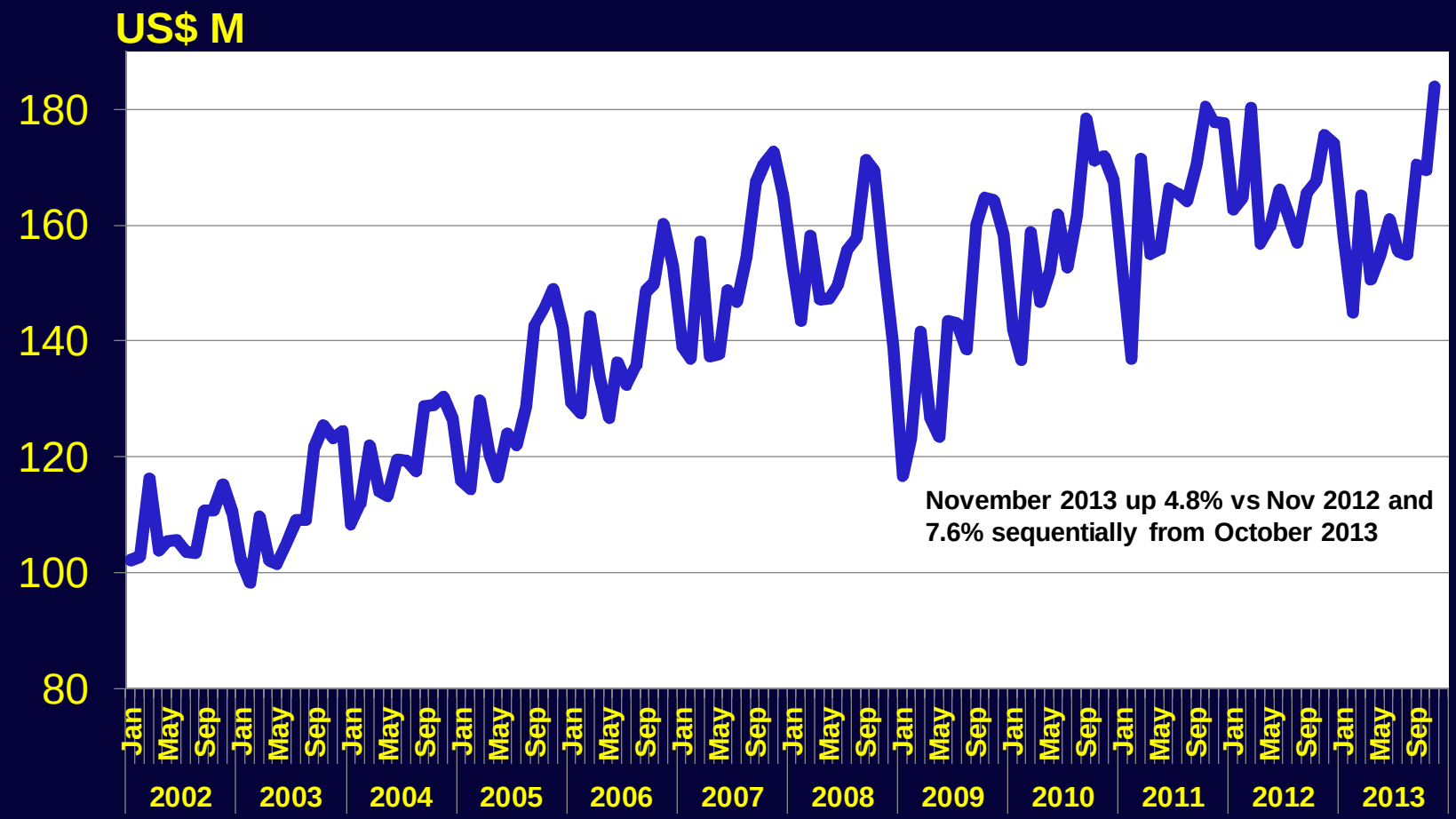
Chart 1

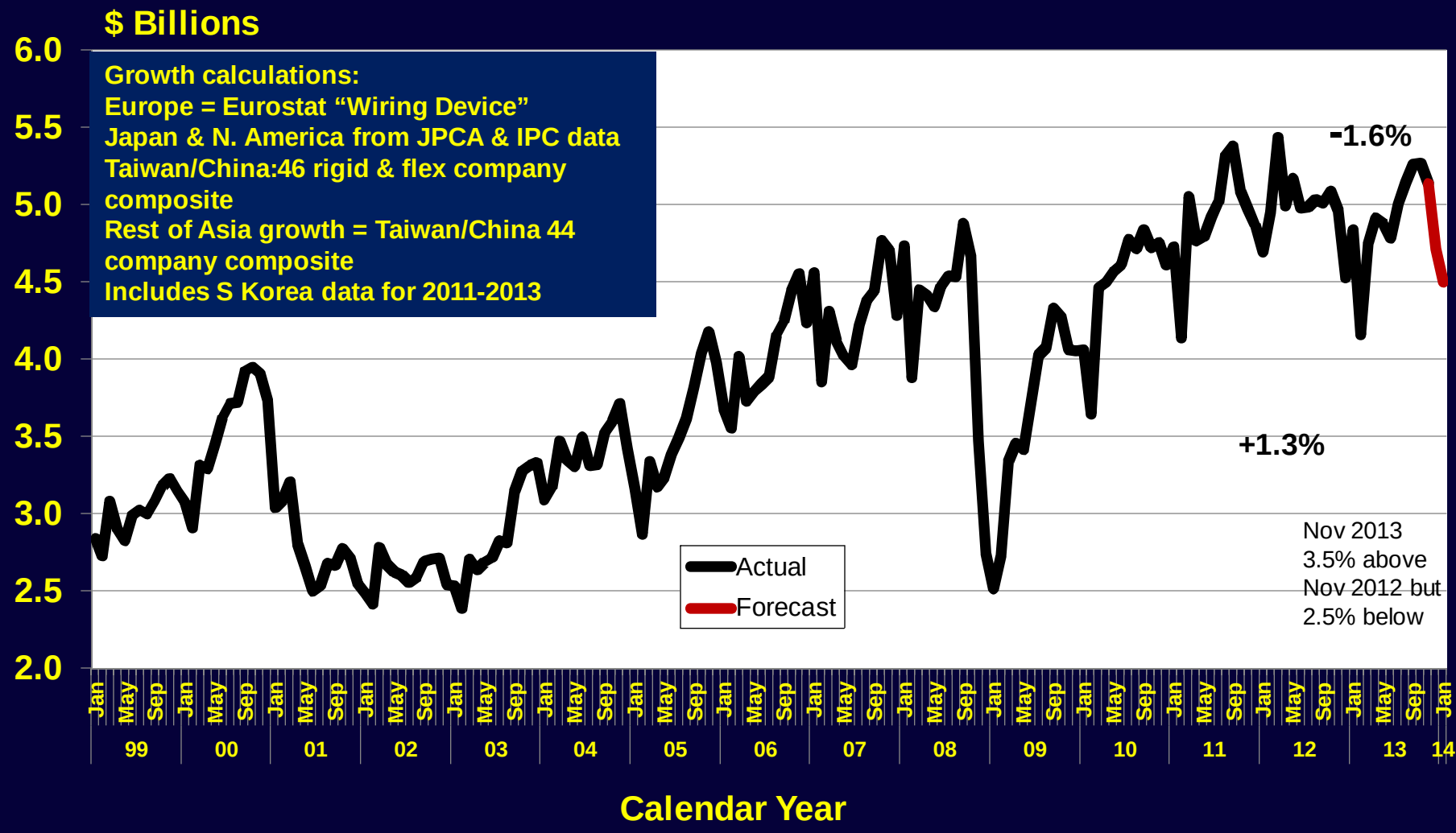
World Electronic Equipment Monthly Shipments
Converted @ Fluctuating Exchange Rates



Source: Custer Consulting Group & Electronic Outlook Corp

Chart 2

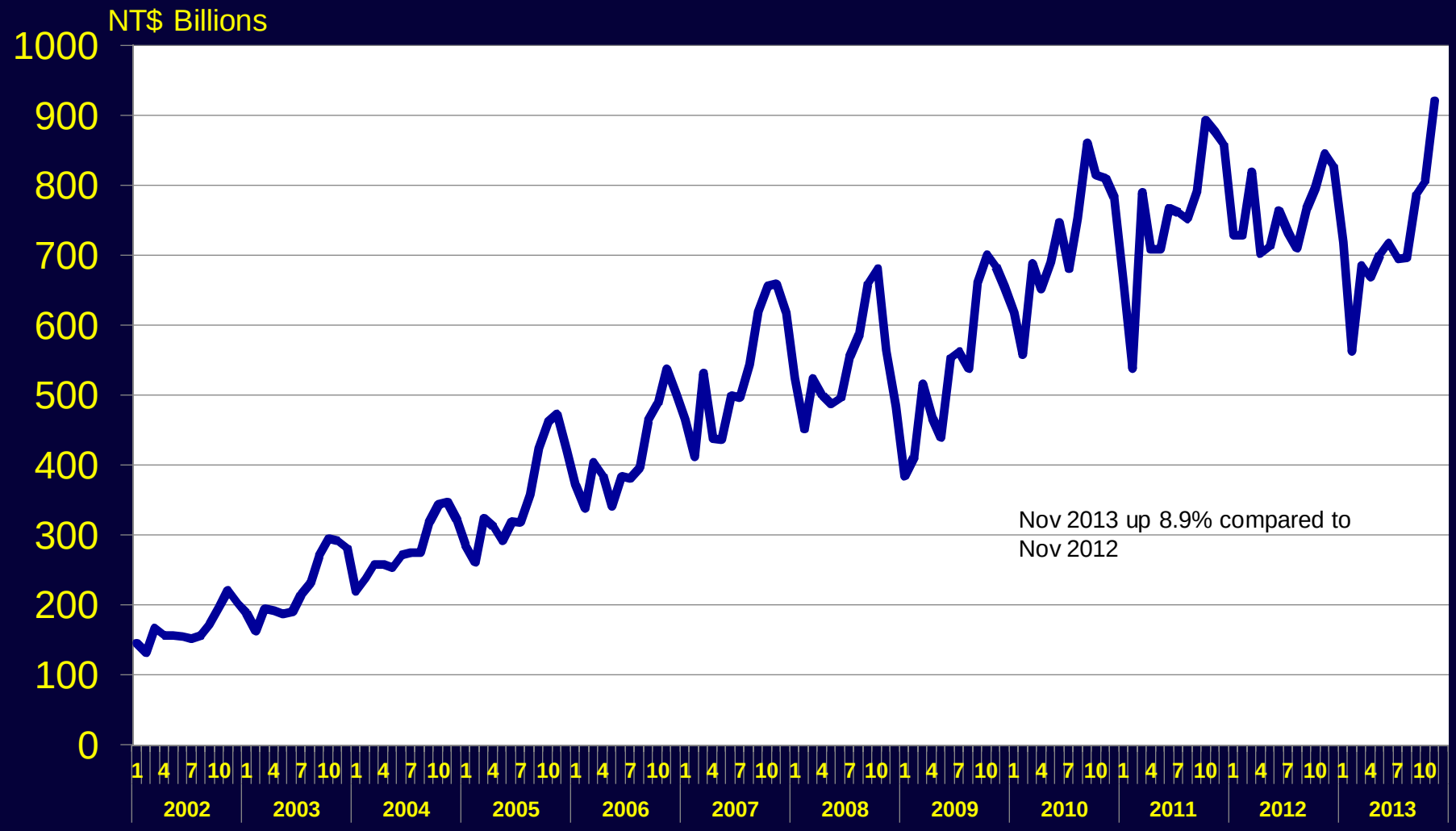
World PCB Shipments (with forecast)
Converted @ Fluctuating Exchange Rates



Source: Custer Consulting Group - 2010 base year expanded by monthly growth of N. American, European, Japanese & Taiwan/China monthly PCB shipments

Chart 3

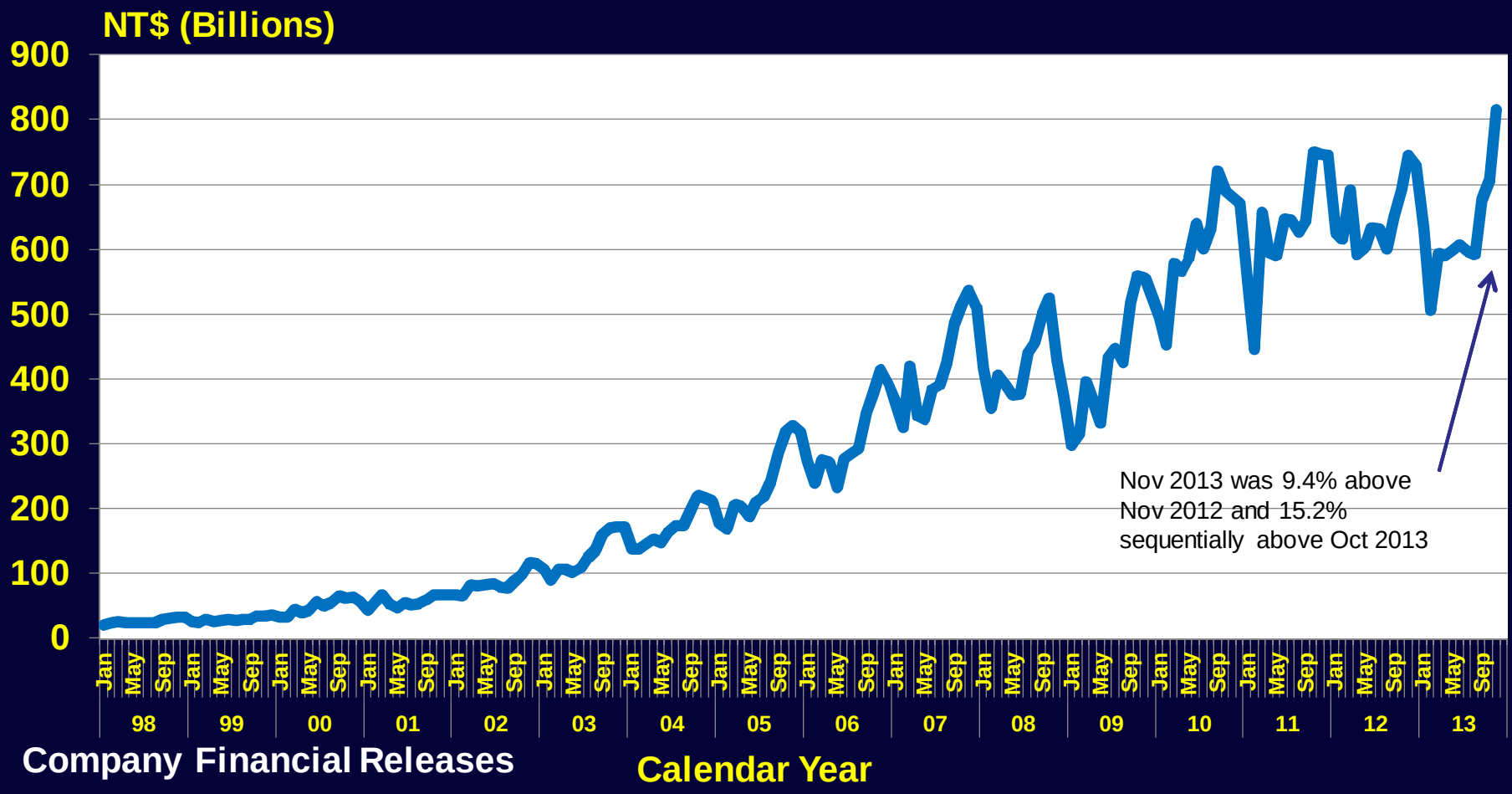
Taiwan/China Electronic Equipment Producers
Composite of 101 Manufacturers
Consolidated Revenue



Taiwan listed companies, often with significant manufacturing in China

Chart 4

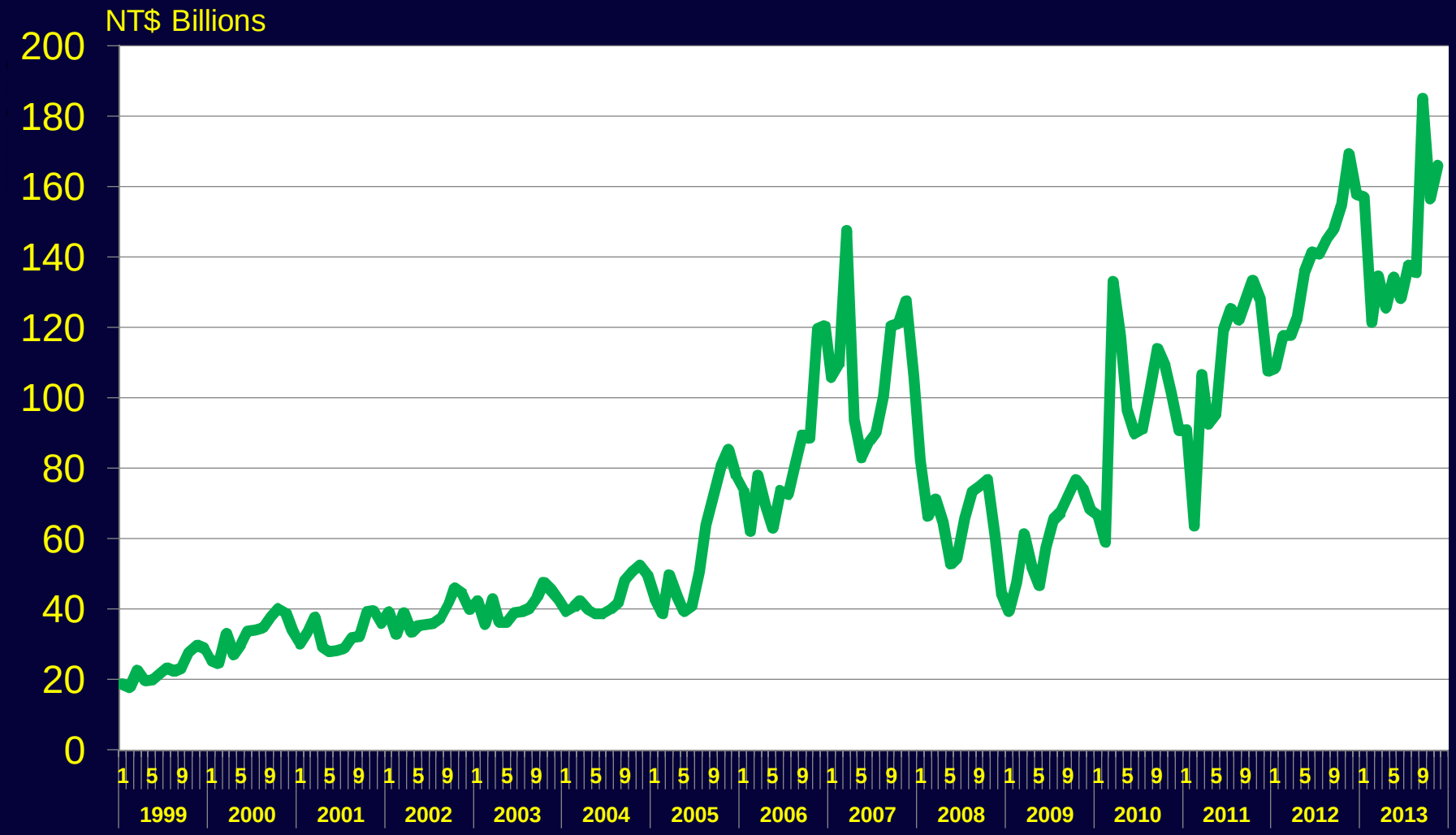
Taiwan ODM Companies
Composite Sales of 10 Large Manufacturers



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

Chart 5

Taiwan/China Motherboard Vendor Sales
Composite of 22 Manufacturers



Taiwan listed companies, often with significant manufacturing in China

Chart 6

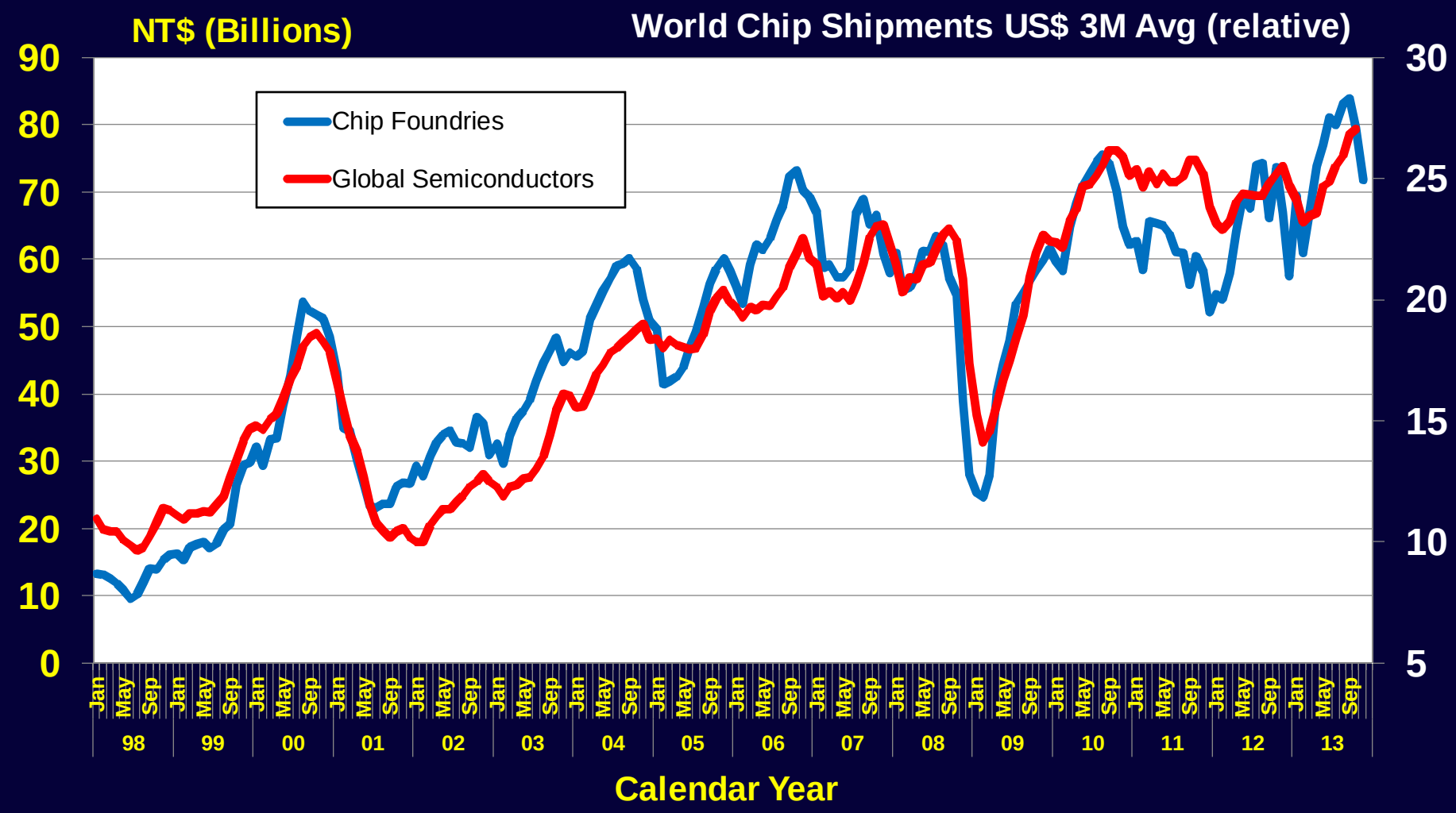
Taiwan Display Producers
Composite of 6 TFT-LCD Panel Manufacturers



Taiwan listed companies, often with significant manufacturing in China

Chart 7

Taiwan Wafer Foundry Composite vs Global Semiconductor Revenues



14 Taiwan Company Financial Releases & SIA

Chart 8

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 9

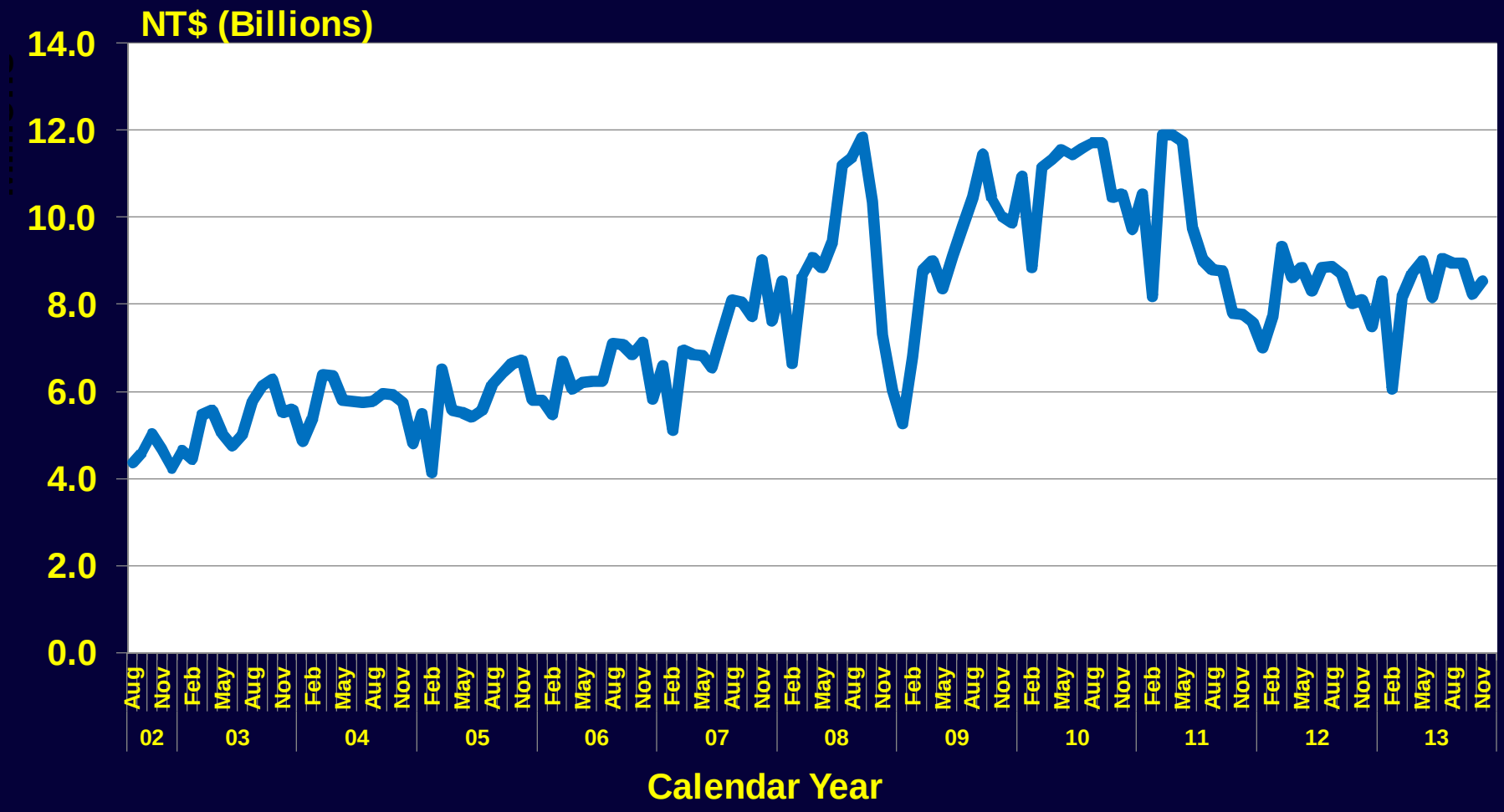
Taiwan Memory Companies
Composite of 8 Manufacturers



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

Chart 10

Taiwan Passive Component Companies
Composite 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)

Chart 11 **Taiwan Solar/Photovoltaic Panel Companies**
Composite of 17 Manufacturers

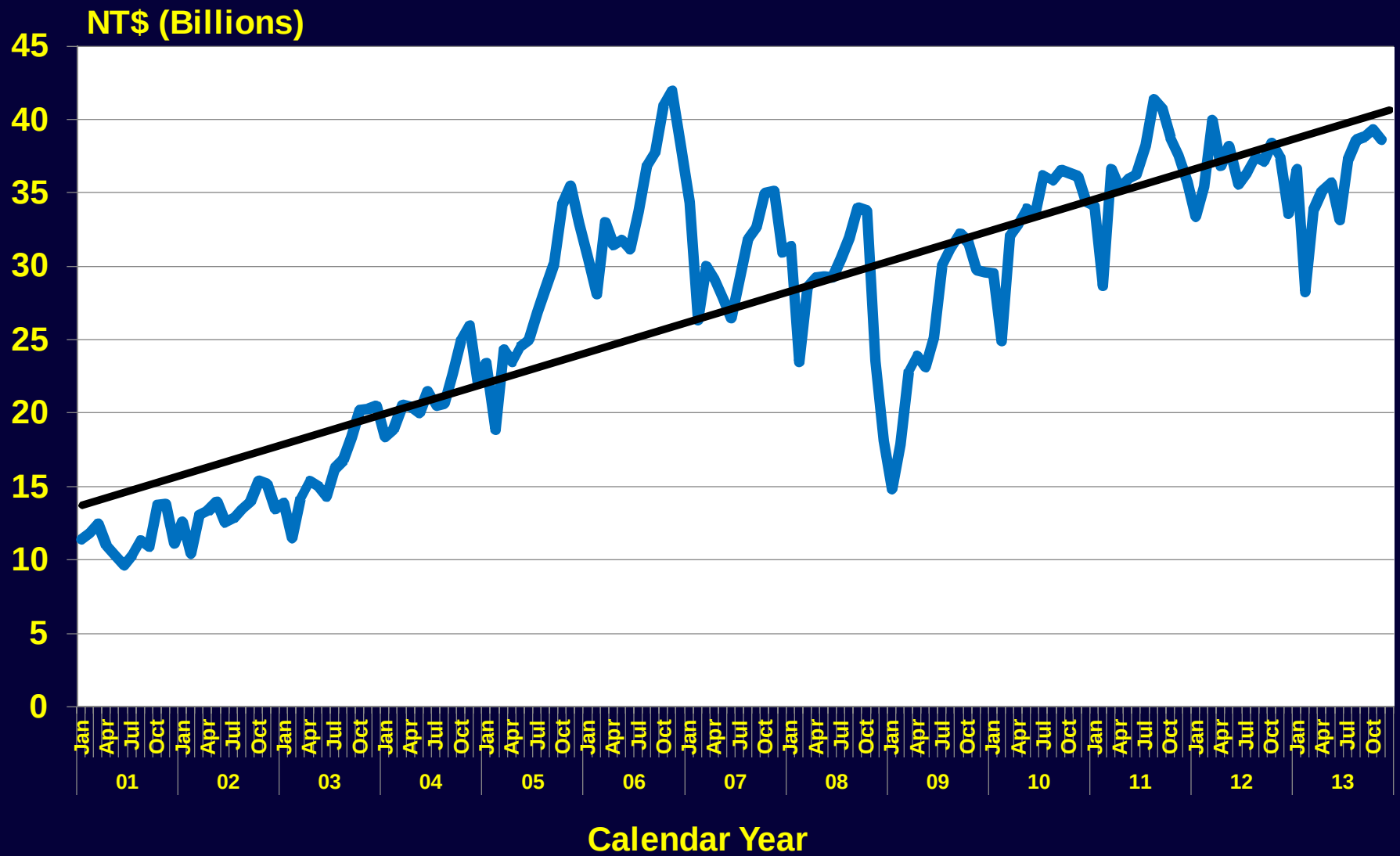


Big Sun Energy Technology, Daxon, DelSolar, e_TON Solar Tec, Eversol, Gintech, Green Energy Technology (GET), Ligitek, Motech, Neo Solar Power, Phoenixtec Power Co (PPC), Precision Silicon, Sino-American Silicon Products, Sonartech, Sysgration, Tyntek, Wafer Works

Chart 12

Taiwan Rigid & Flex PCB Shipments

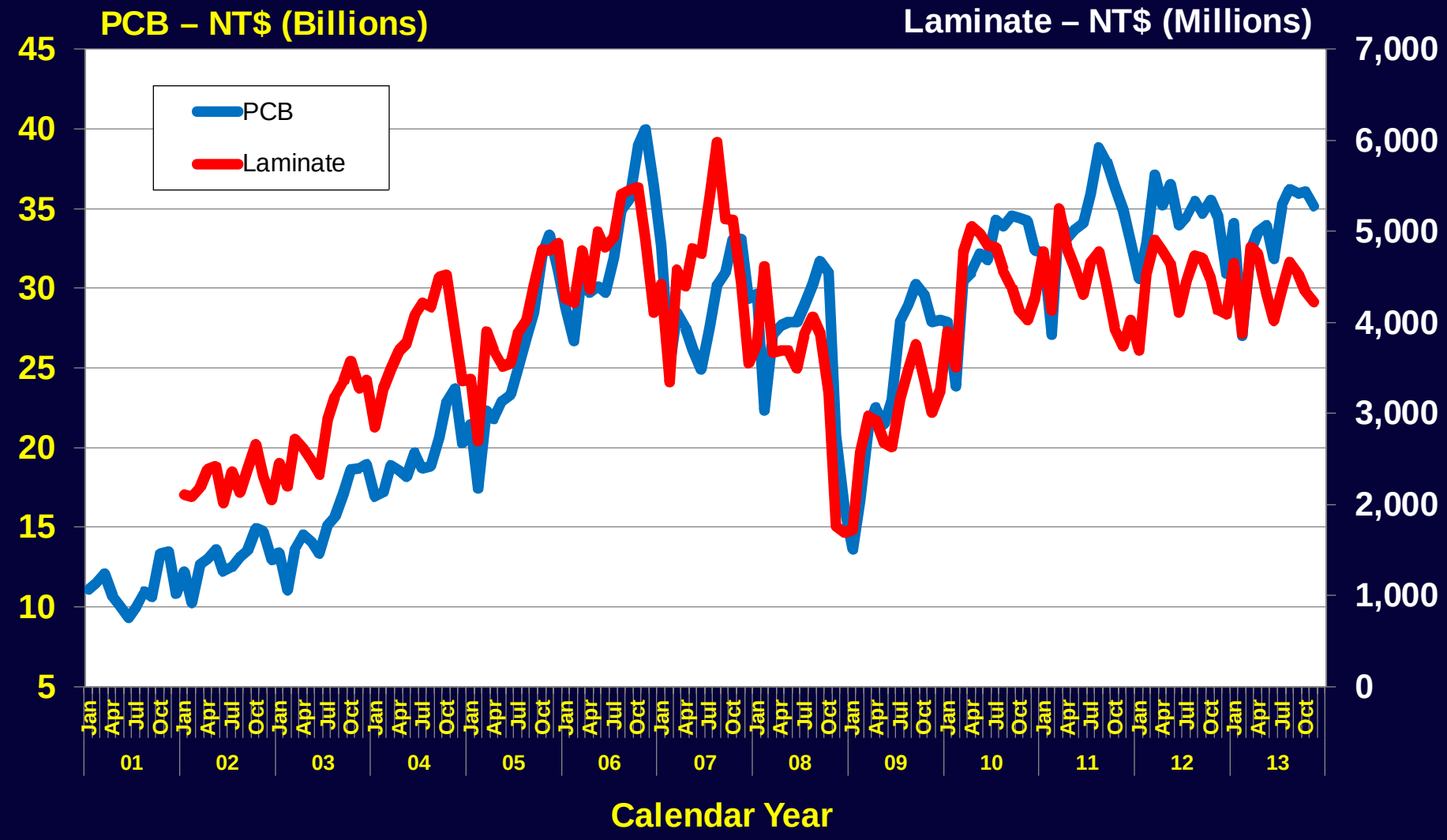
Broad Composite of 46 Taiwan-listed Manufacturers



Company Financial Releases

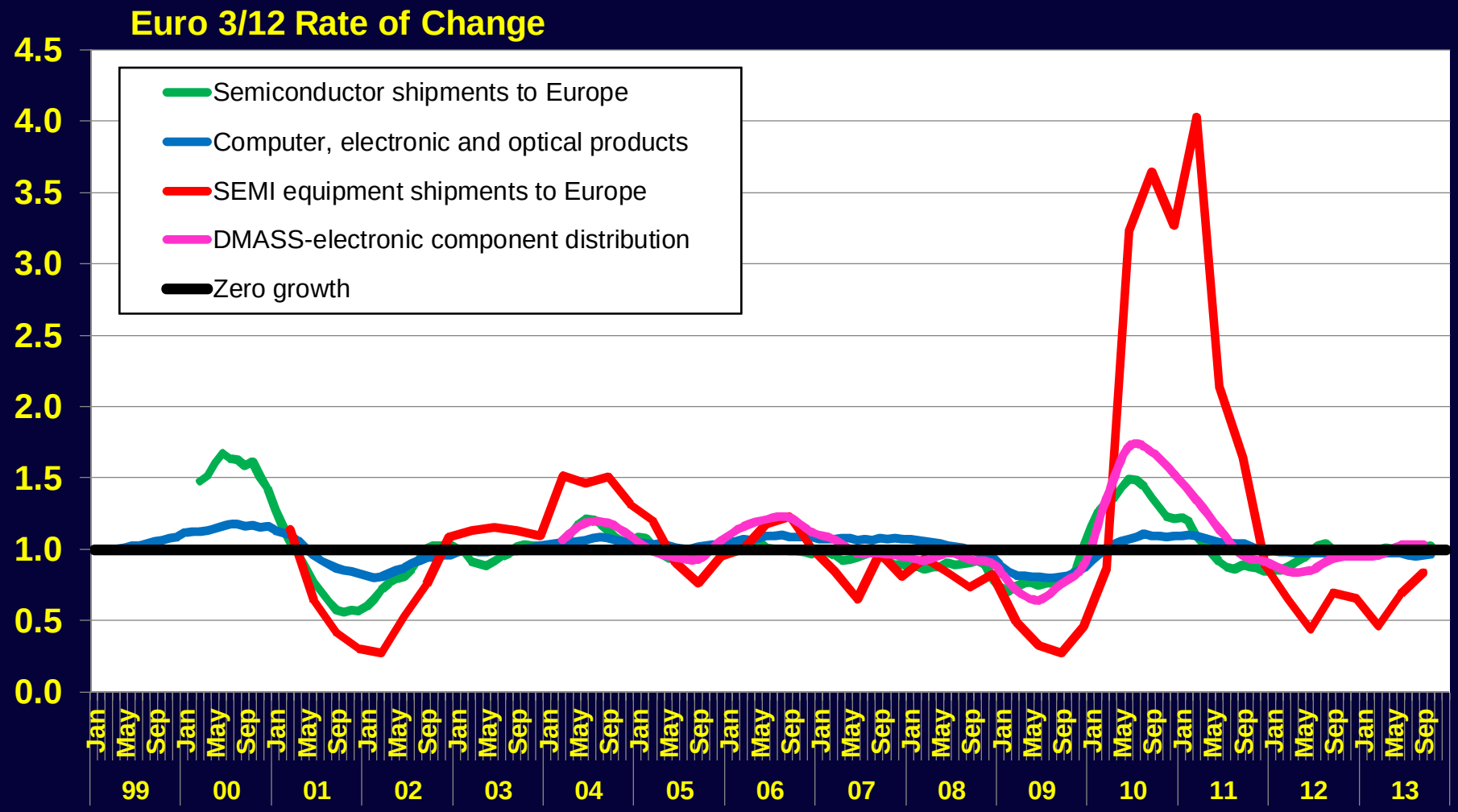
Chart 13

Taiwan Shipments
42 Rigid PCB & 8 Laminate Manufacturers



Company Financial Releases

Chart 14 **European Computer, Electronic and Optical Products, Semiconductors, & SEMI Equipment Shipments**

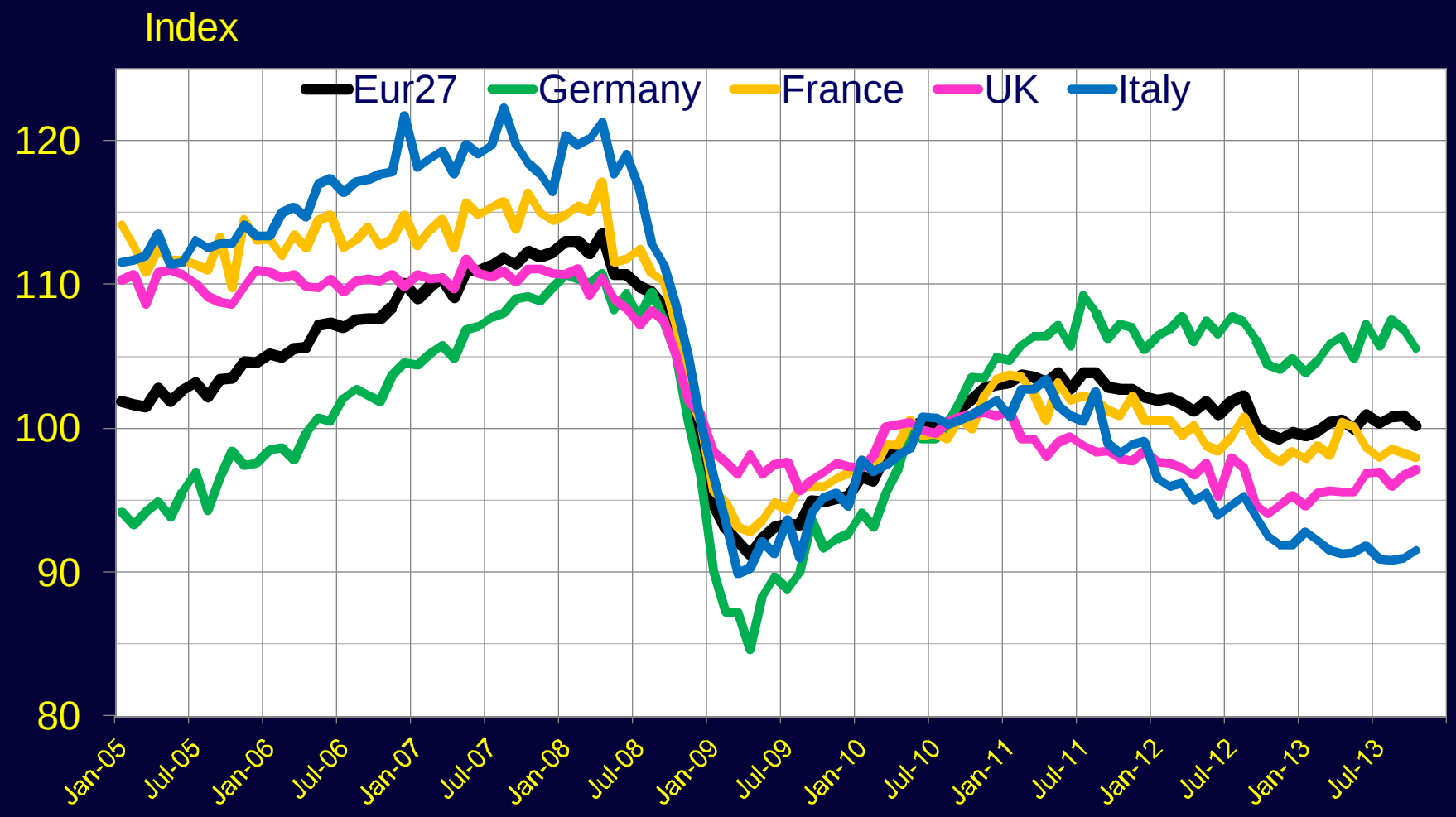


Total $ Semiconductor Shipments from All Countries to Europe www.sia-online.org/, Eurostat class C26 & SEMI, CCG Extrapolation of SEMI growth

Chart 15

Industrial Production - Europe

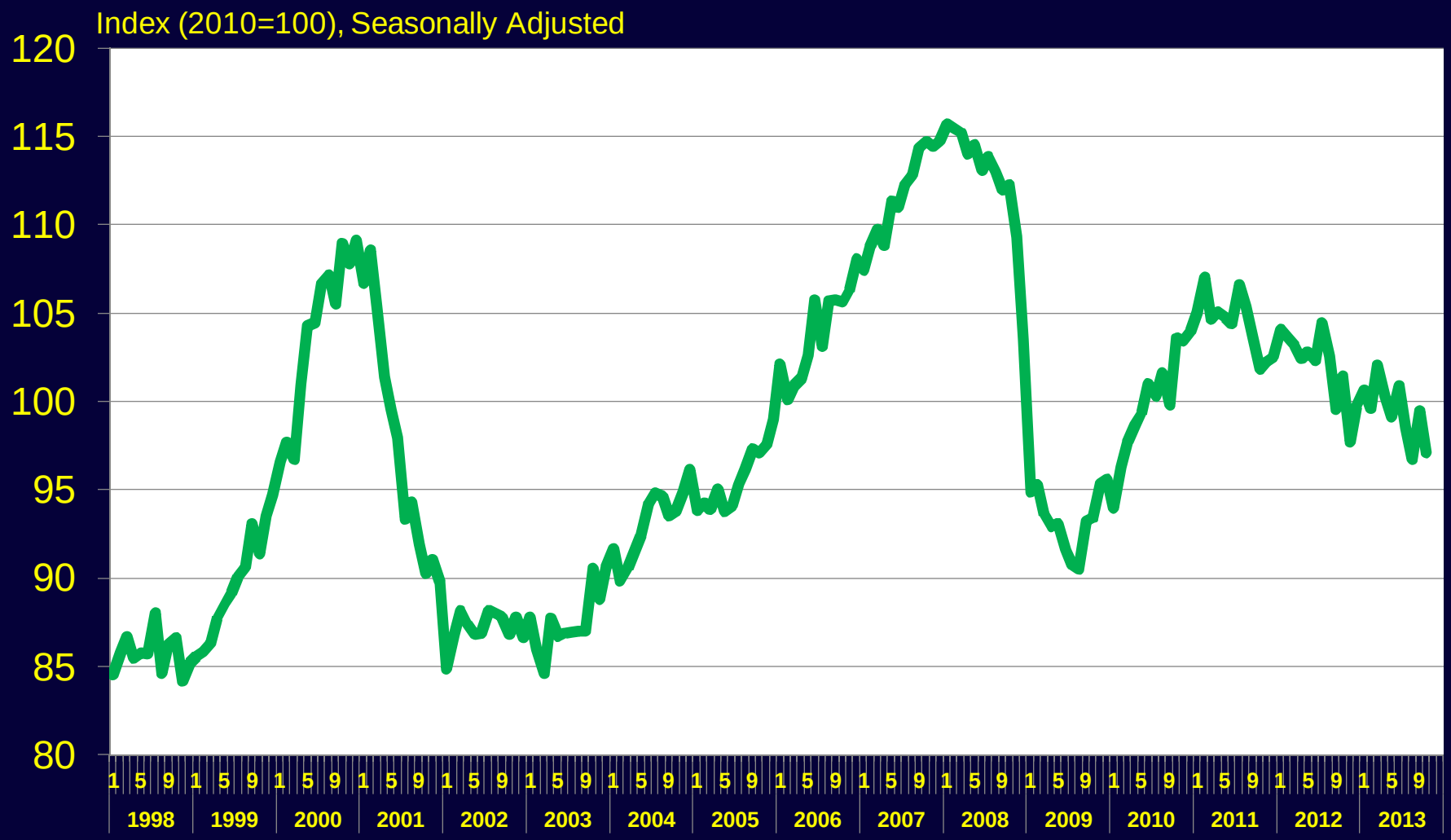
Index (2010 Avg. Month = 100, Seasonally Adjusted)



Eurostat

European Computer, Electronic & Optical Products Production

Chart 16



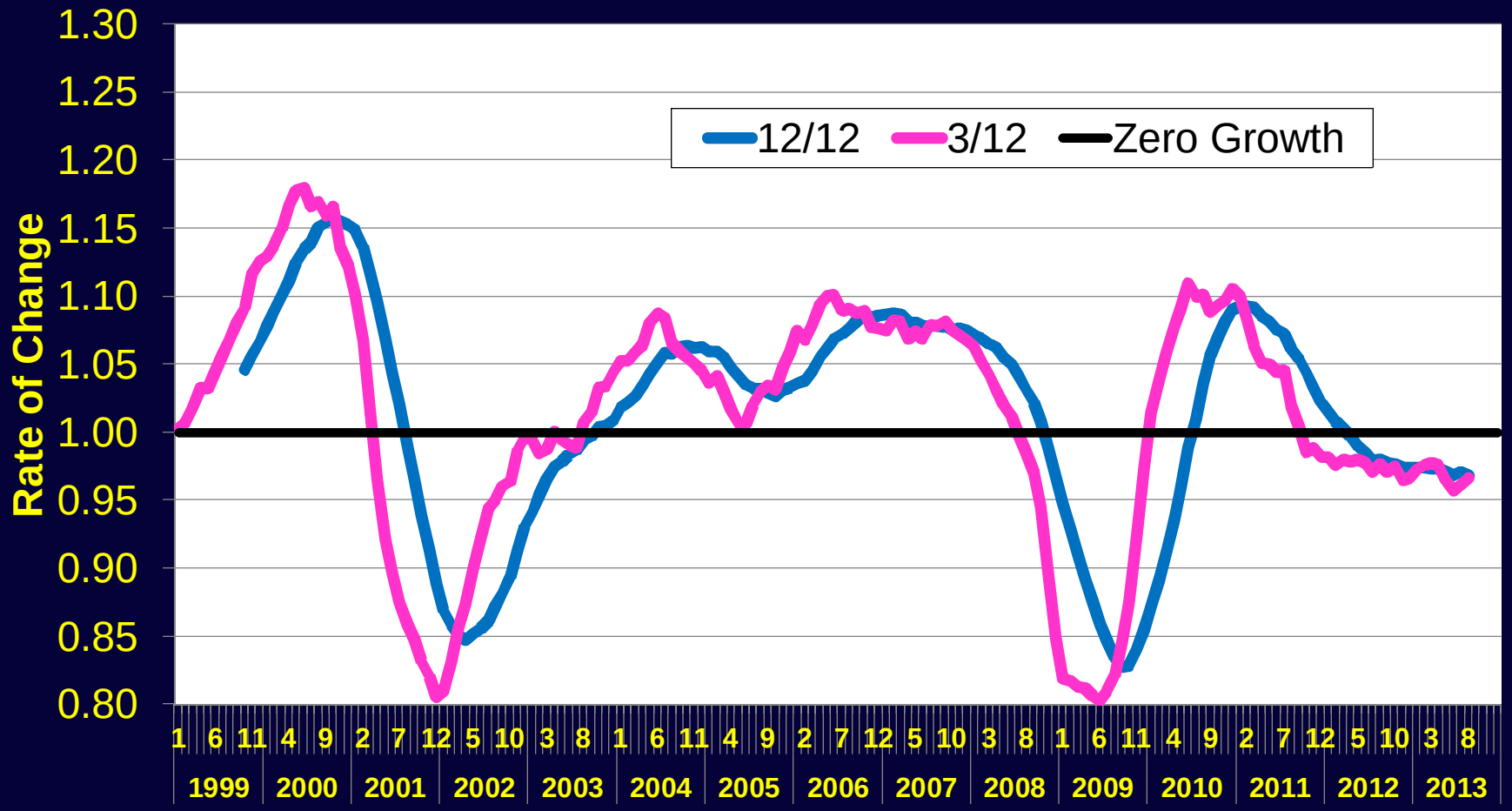
Eurostat, C26 category, EU 27 countries

Chart 17

Europe- EU27

Manufacture of computer, electronic & optical products

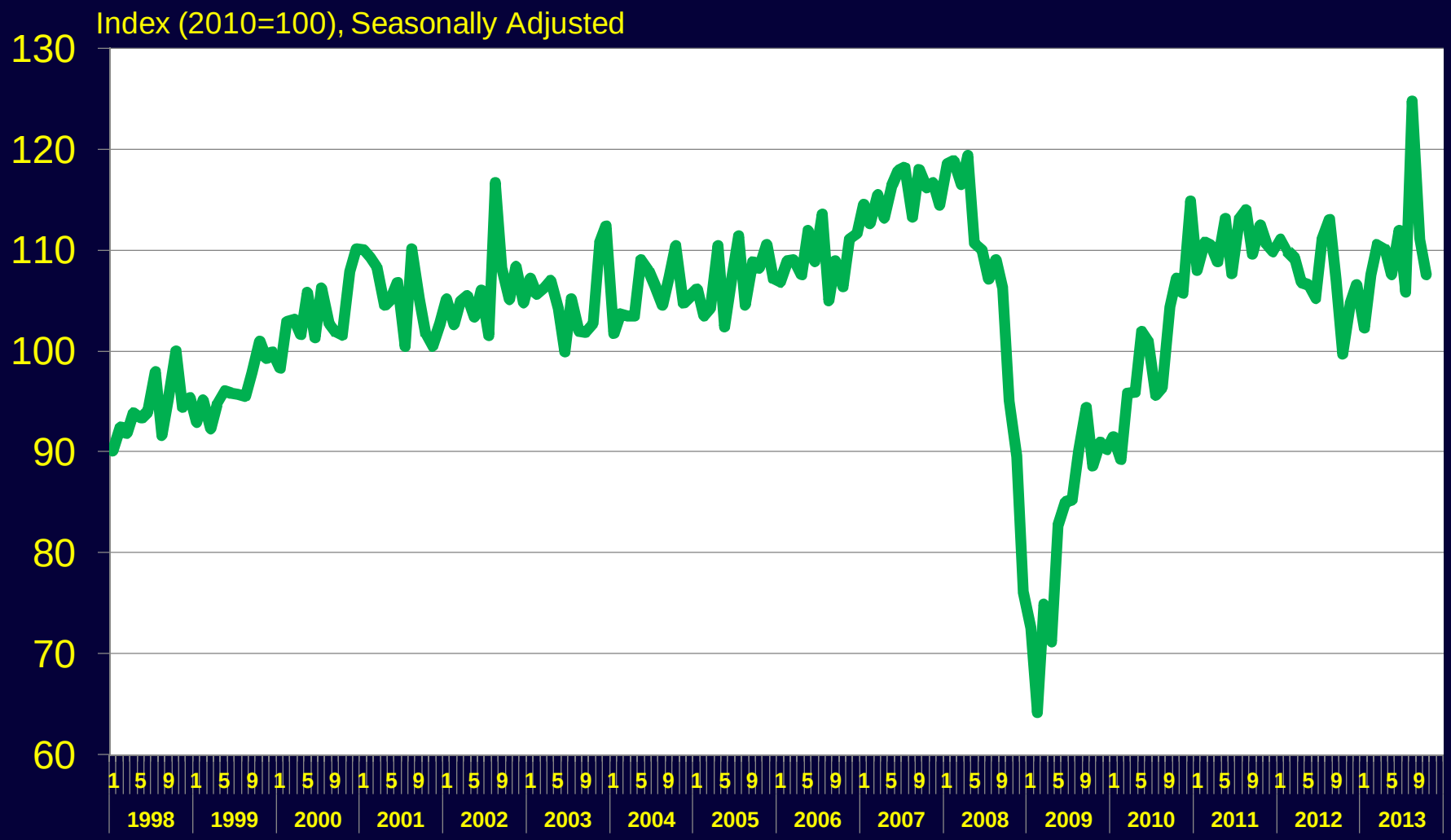
12/12 & 3/12 Rate of Change



Eurostat

Chart 18

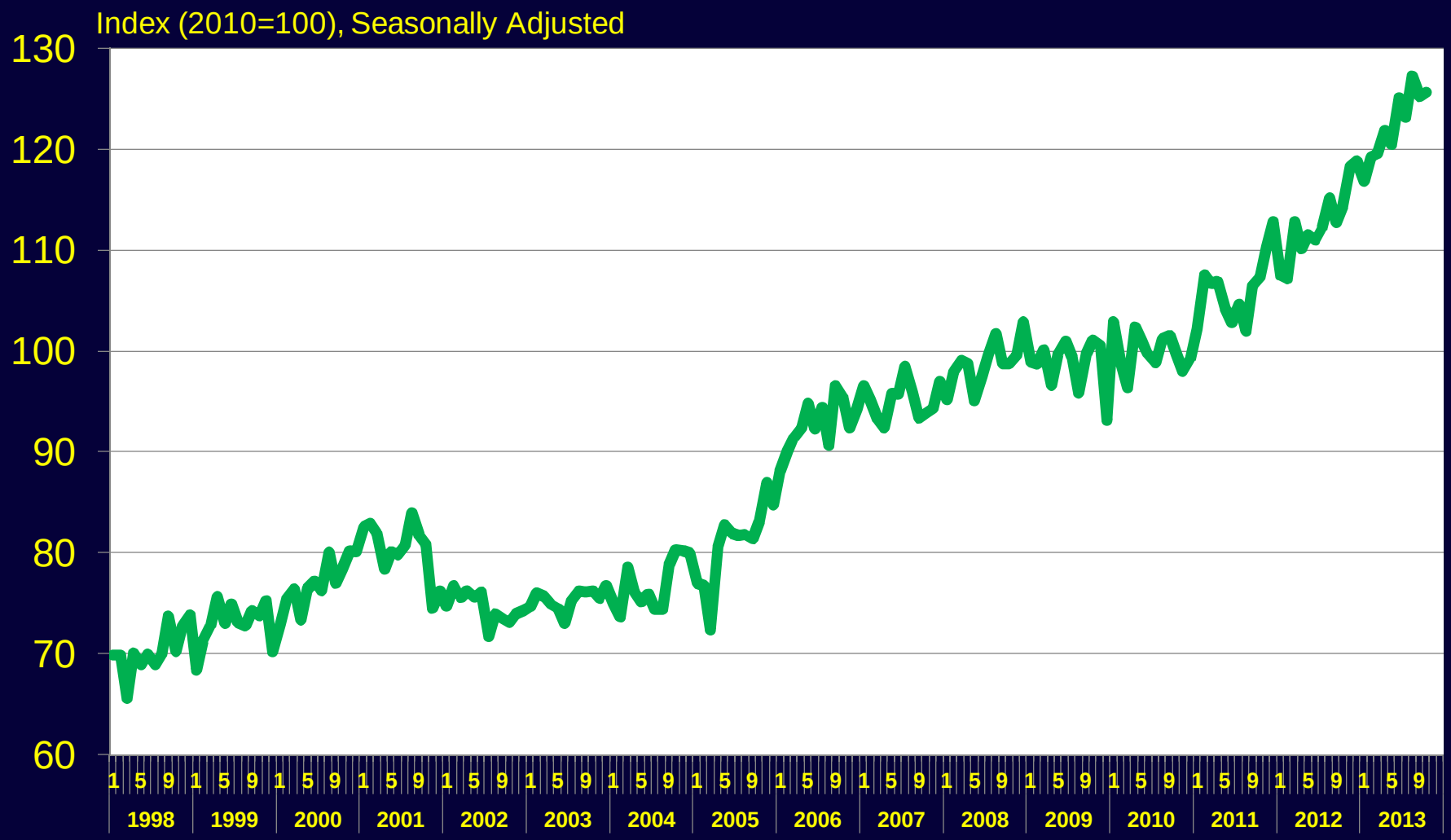
European Motor Vehicle Production



Eurostat, C291 category, EU 27 countries

Chart 19

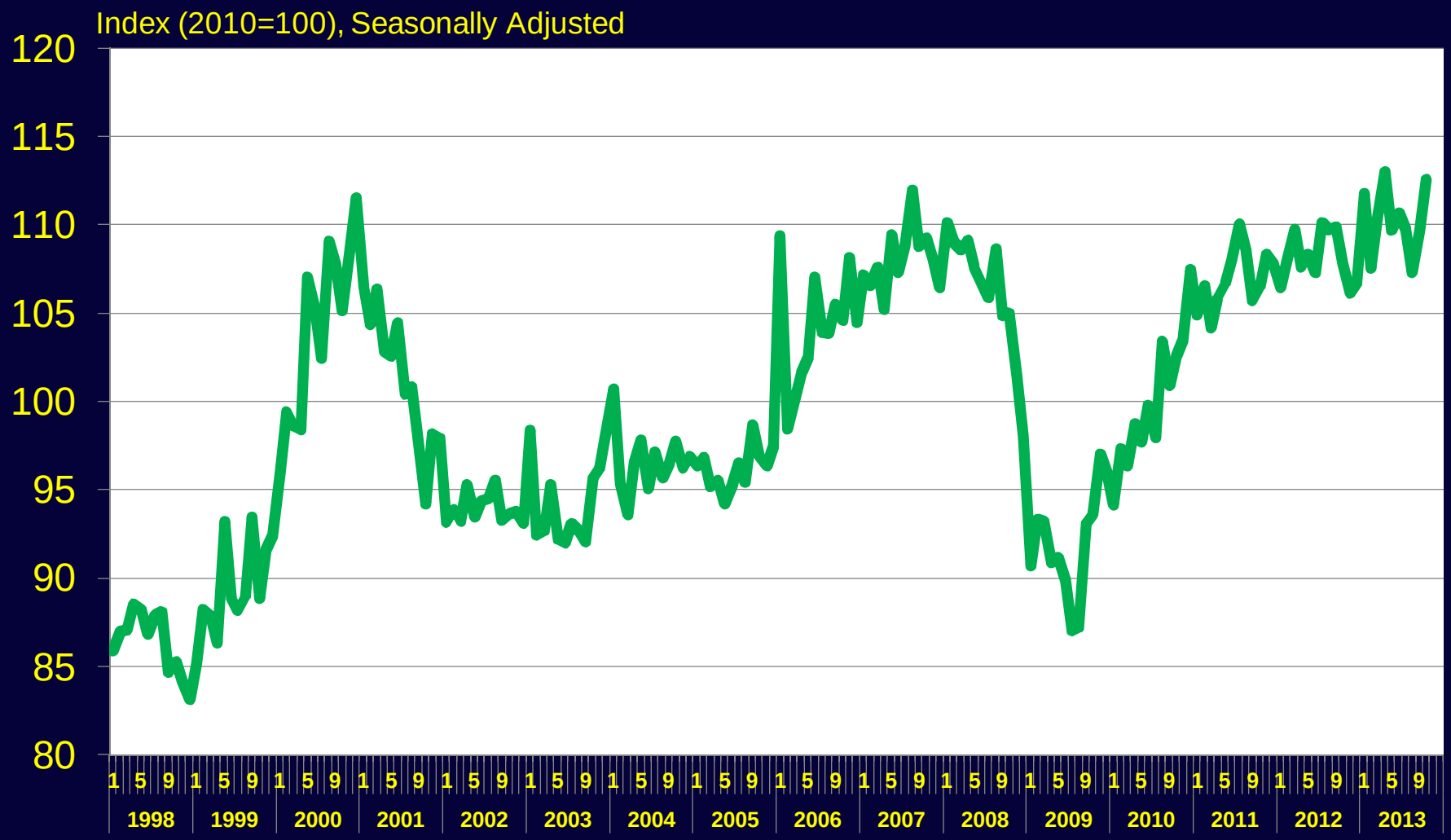
European Production - Aircraft, Spacecraft & Related Equipment



Eurostat, C303 category, EU 27 countries

Chart 20

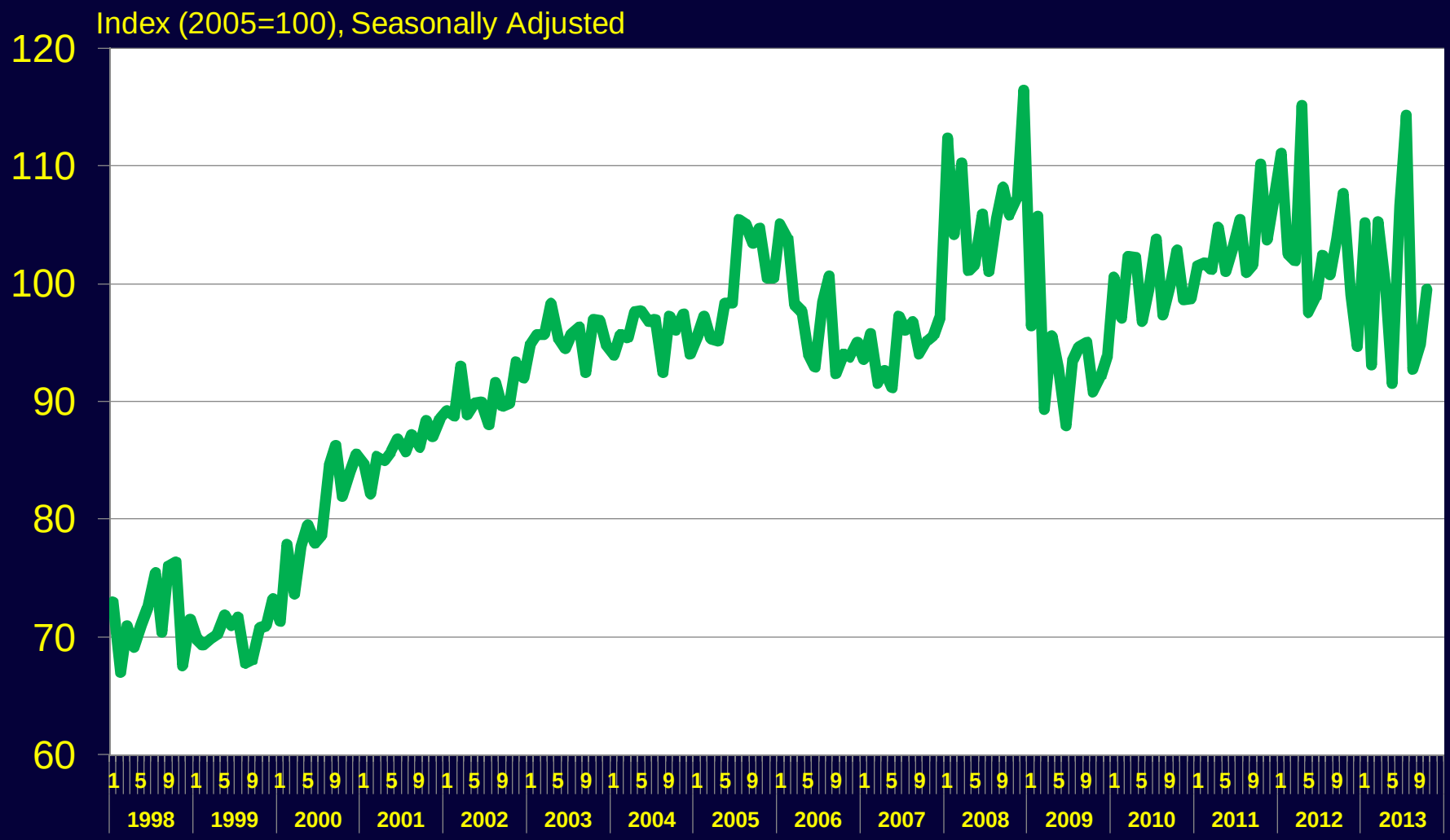
European Production - Instruments & Appliances for Measuring, Testing & Navigation



Eurostat, C2651 category, EU 27 countries

Chart 21

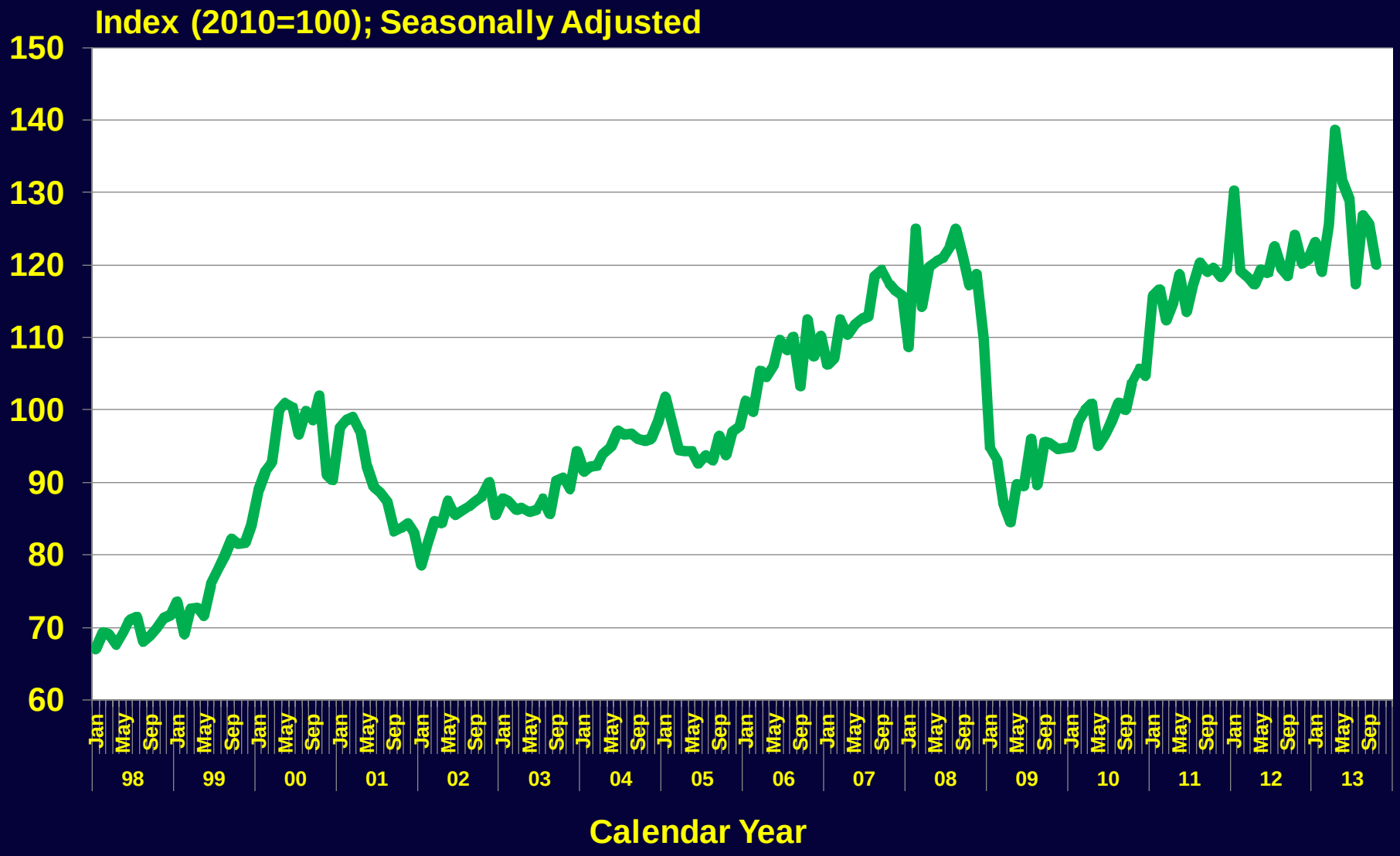
European Production - Irradiation, Electromedical & Electrotherapeutic Equipment



Eurostat, C266 category, EU 27 countries

European Loaded Electronic Board Production

Chart 20



Eurostat, C2612

Chart 23

European Electronic Components & Board Production



Eurostat

Chart 24

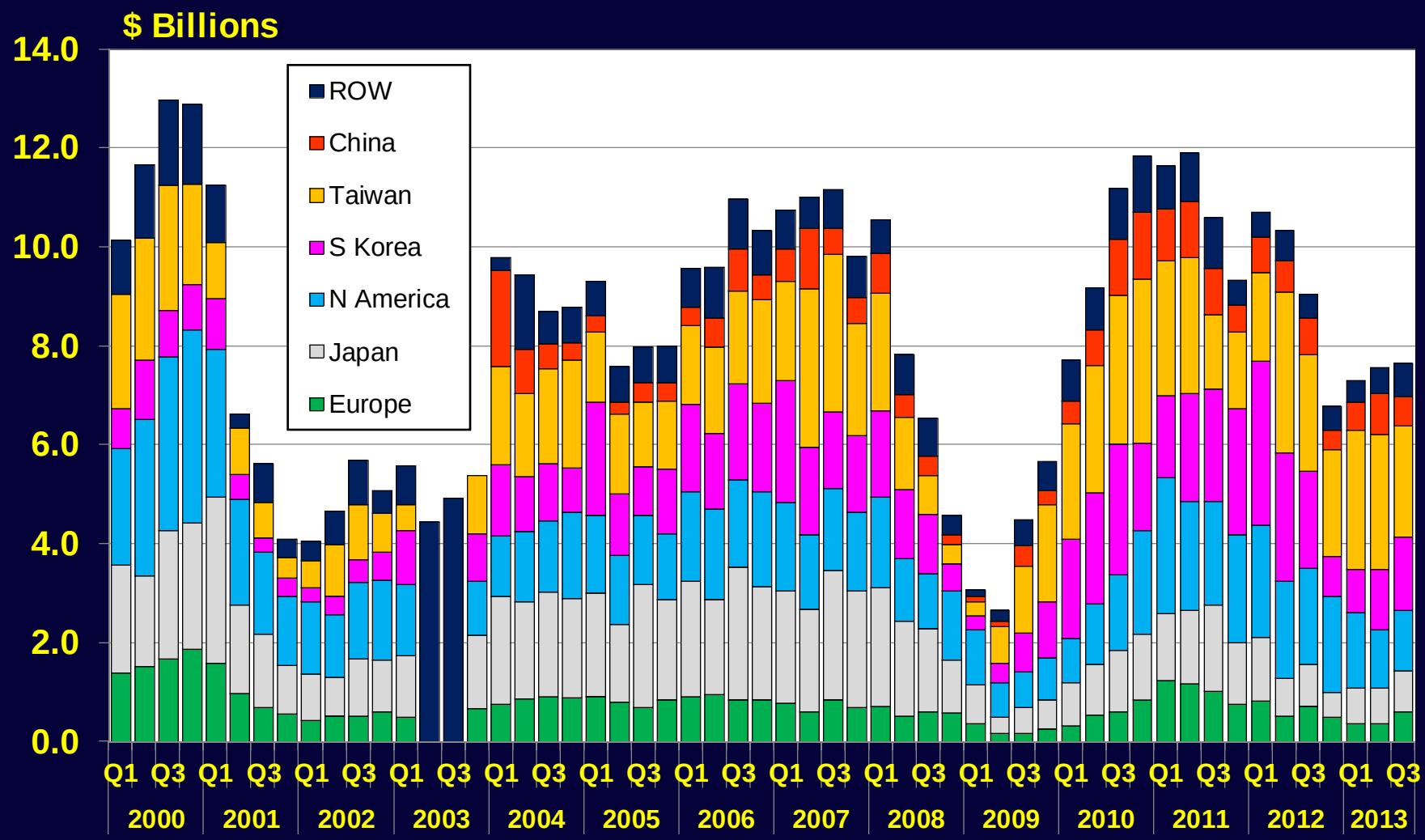
Present Growth Rates (%)
European Electronics Industry

	Latest Month	Annual Growth Rate	3-Month Growth Rate
ELECTRONIC EQUIPMENT SHIPMENTS (Index CY 2010 =100)			
Computer, Electronic & Optical Products	10/13	96.8	96.6
Components & Boards	10/13	99.0	105.1
Wiring Devices	10/13	97.3	102.9
Loaded Electronic Boards	10/13	103.6	102.9
Office Equipment	10/13	101.1	91.3
Consumer Electronics	10/13	67.1	54.9
Electric Domestic Appliances	10/13	97.2	96.8
Electronic Instruments	10/13	101.1	100.7
Medical Electronics	10/13	95.5	92.0
Motor Vehicles	10/13	100.8	107.4
Air & Space Aircraft	10/13	109.2	110.4
Semiconductor Shipments (Eur) to Europe	10/13	99.5	100.3
Industrial Production	10/13	96.8	96.6

Sources: Eurostat & SIA

Chart 25

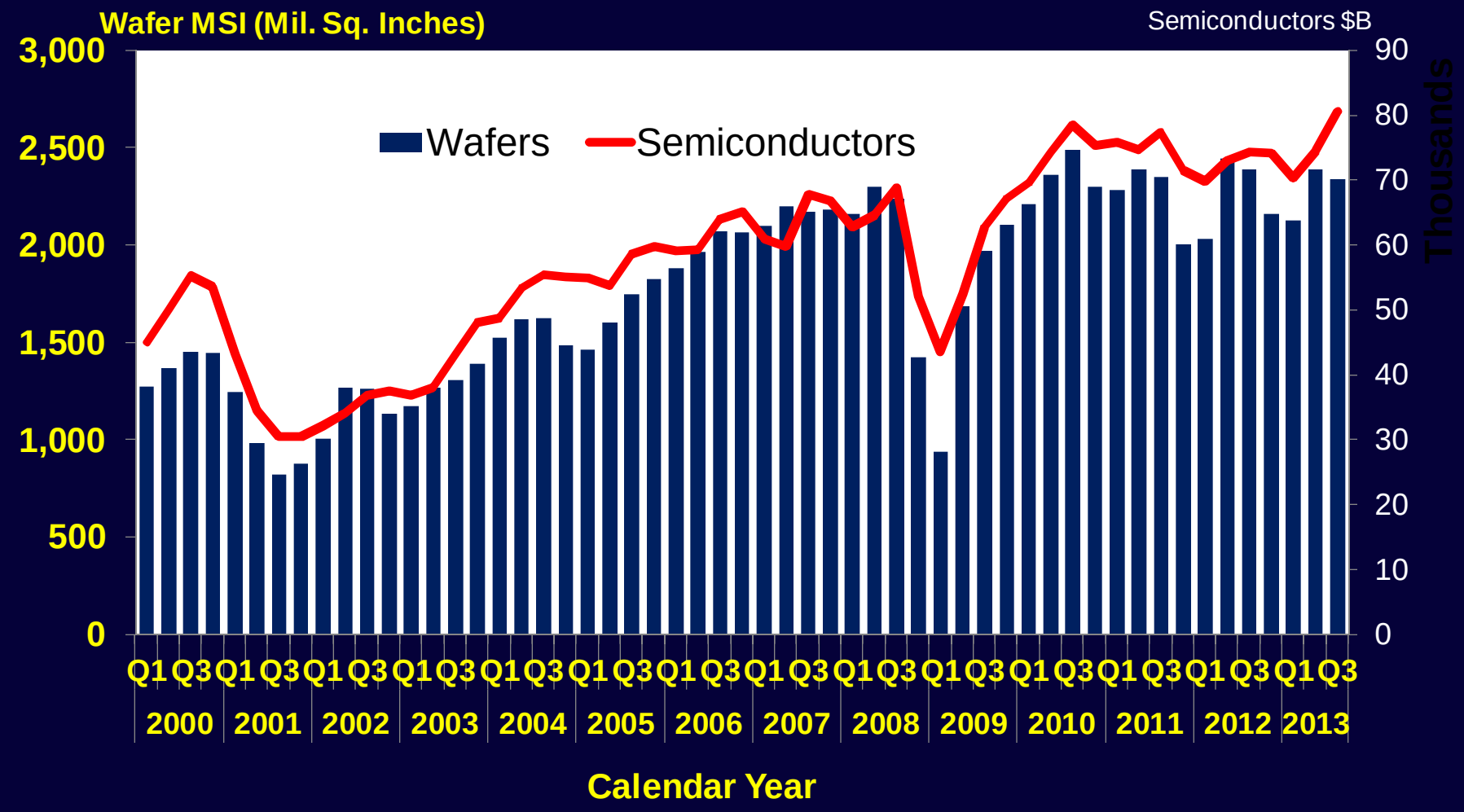
Semiconductor Capital Equipment Shipments by Area



www.semi.org, www.seaj.or.jp/ 9/13

Chart 26

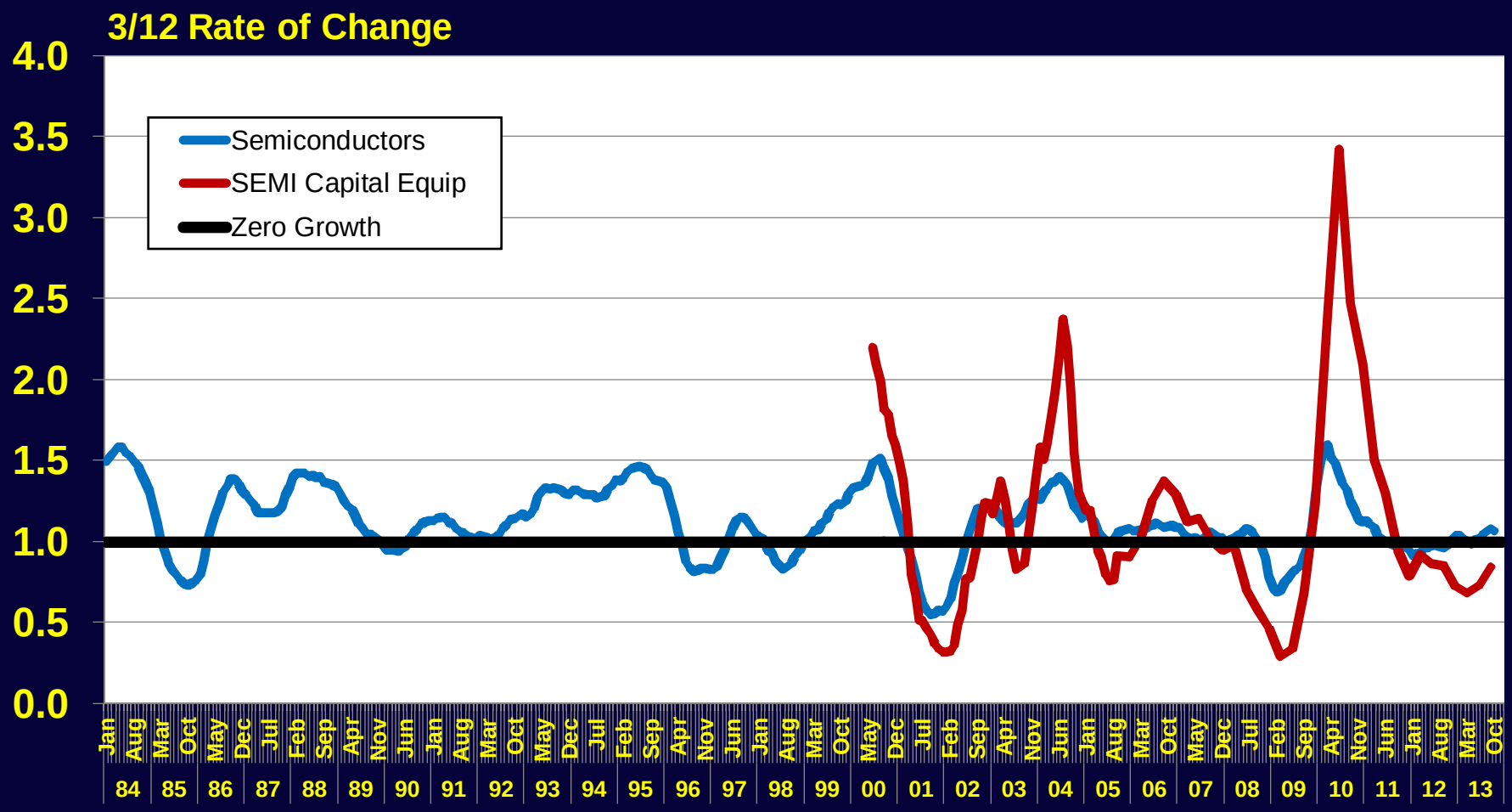
Global Silicon Wafer vs. Semiconductor Shipments
(excluding solar applications for wafers)



www.semi.org and www.sia-online.org

Chart 27

Global Semiconductor & Semiconductor Capital Equipment
3-Month Shipment Growth Rates on $ Basis



Sources: SIA; Semiconductor Equipment Association of Japan, www.semi.org, Custer Consulting Group SEMI equipment sector composite 2012 growth