Outlook on the Global PCB & Electronics Industry

ICT

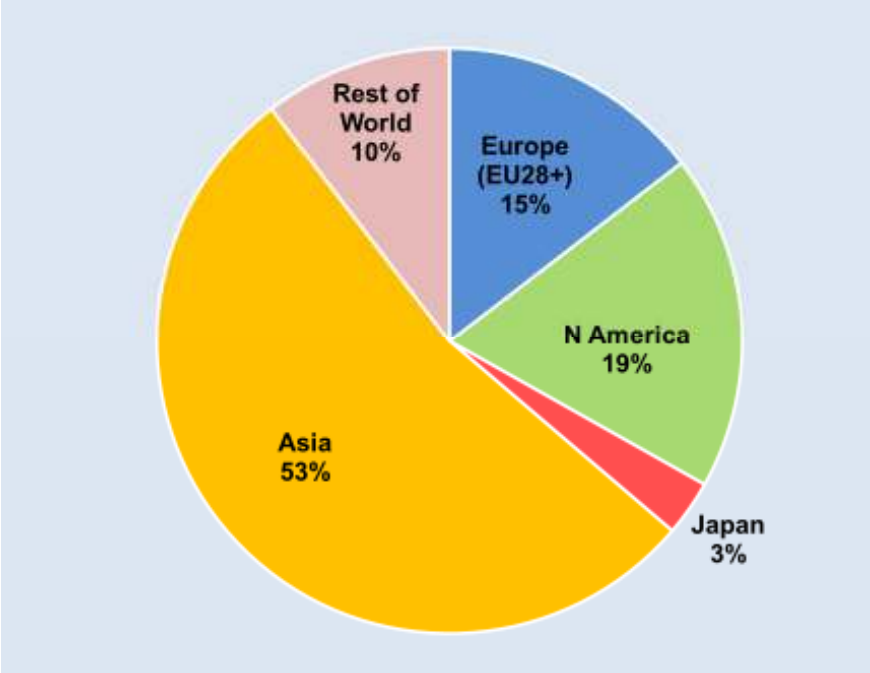
Tewkesbury, 2nd March 2016

Francesca Stern

Email: francesca@francescastern.com

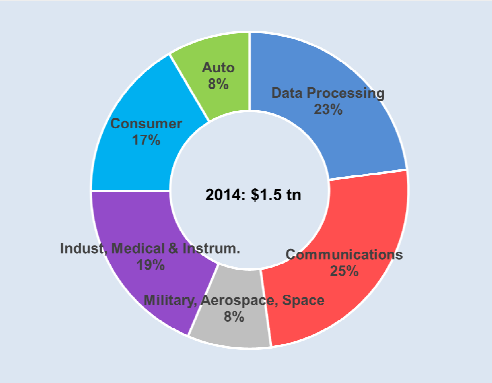
Electronics Production Trends
(market for PCBs)

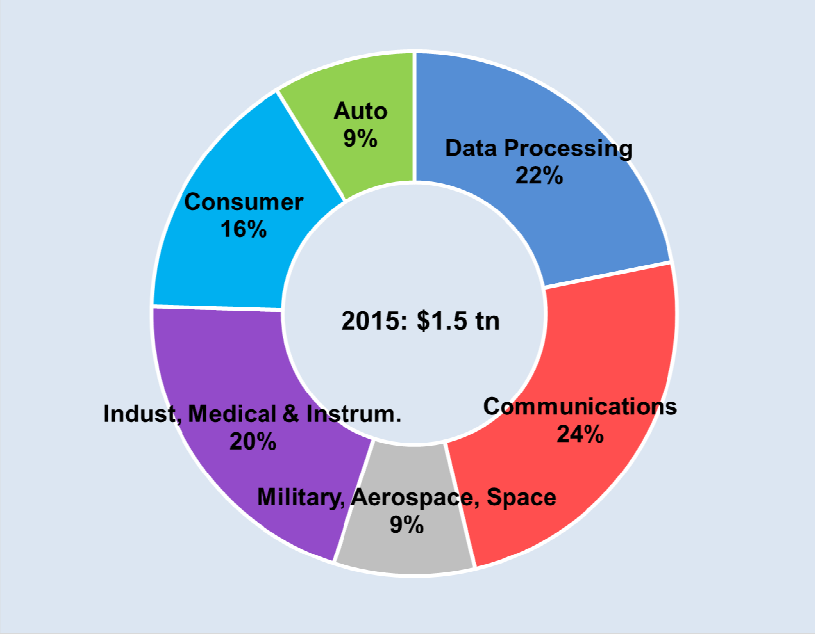
Global Electronics Production



- The value of global electronics equipment production (i.e. excluding components)remained almost unchanged from 2014 at $1.5 trillion
- Low single digit growth in Europe and North America, 0% in Japan as recovery was not sustained, and decline in S Korea and Taiwan.

Global Electronics Production in 2015

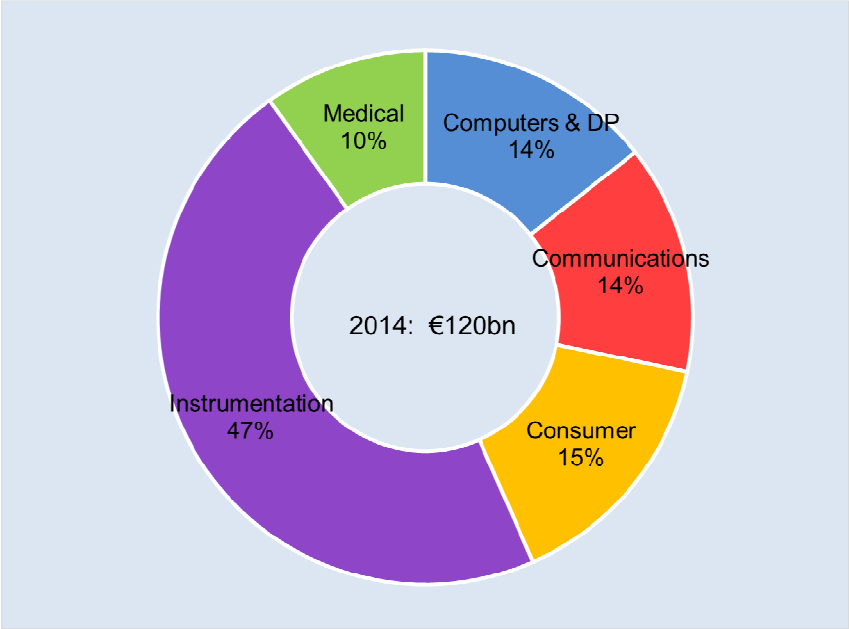


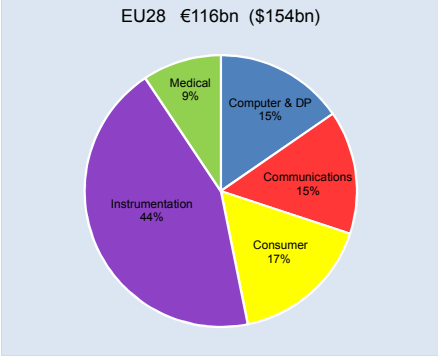


- Continued growth in Chinese output of base stations for 4G/LTE but less than in 2014.
- Smartphone up, laptops & tablet down
- Vehicle production in China increased by 7.3% in 2014 to 23.7 million vehicles (cars & commercial). Little growth in output in 2015
- China accounts for 26.4% of worldwide vehicle production.

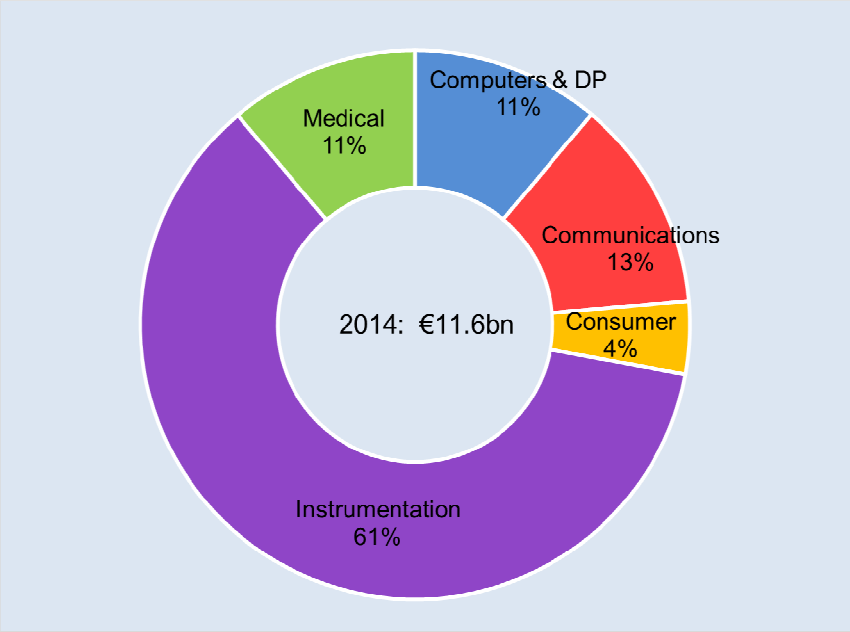
Electronics Production in 2014, Europe vs UK

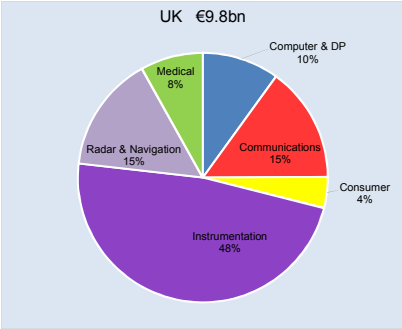
EU28



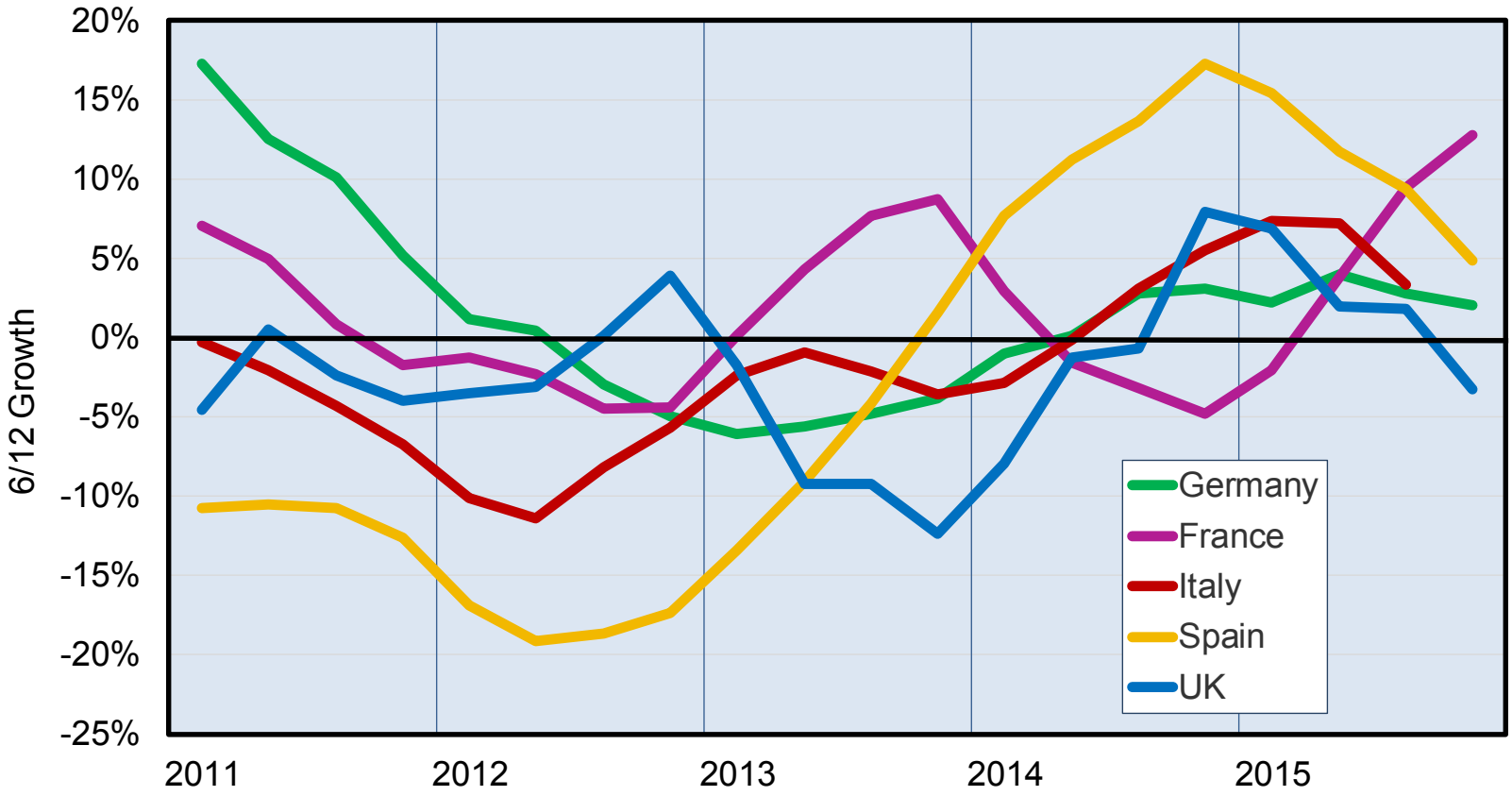


UK

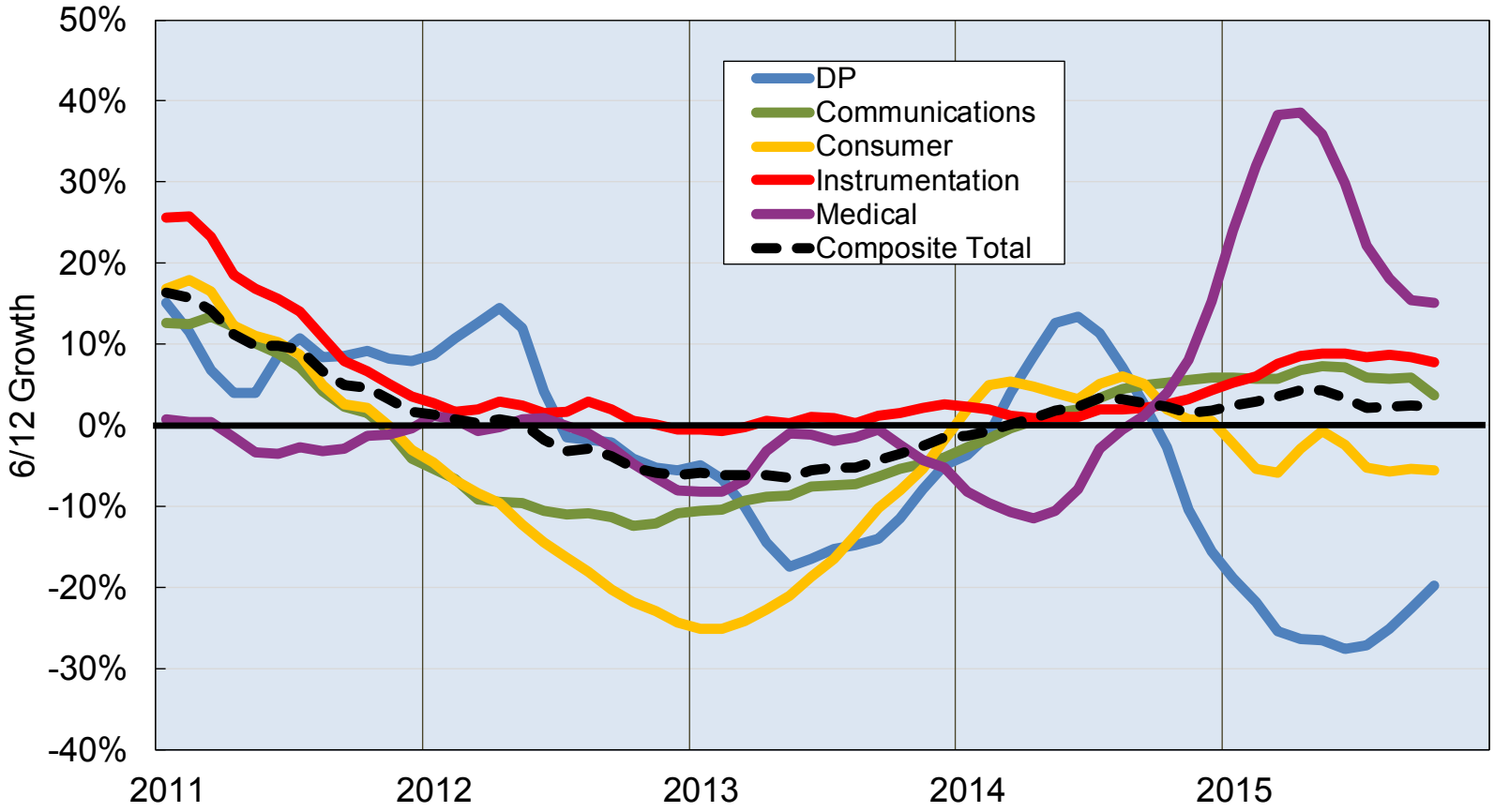




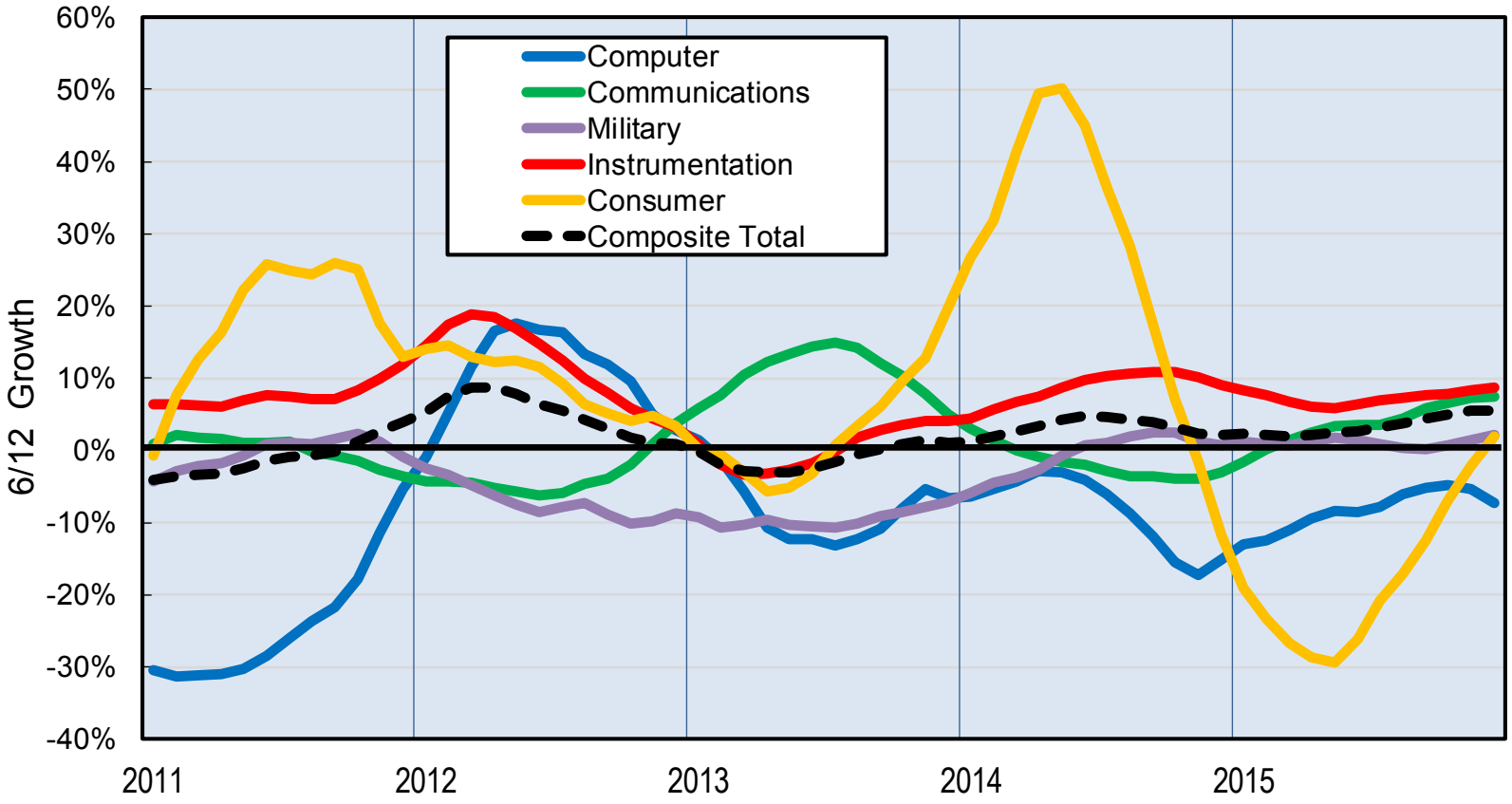
W European Electronics Production Growth (6/12)



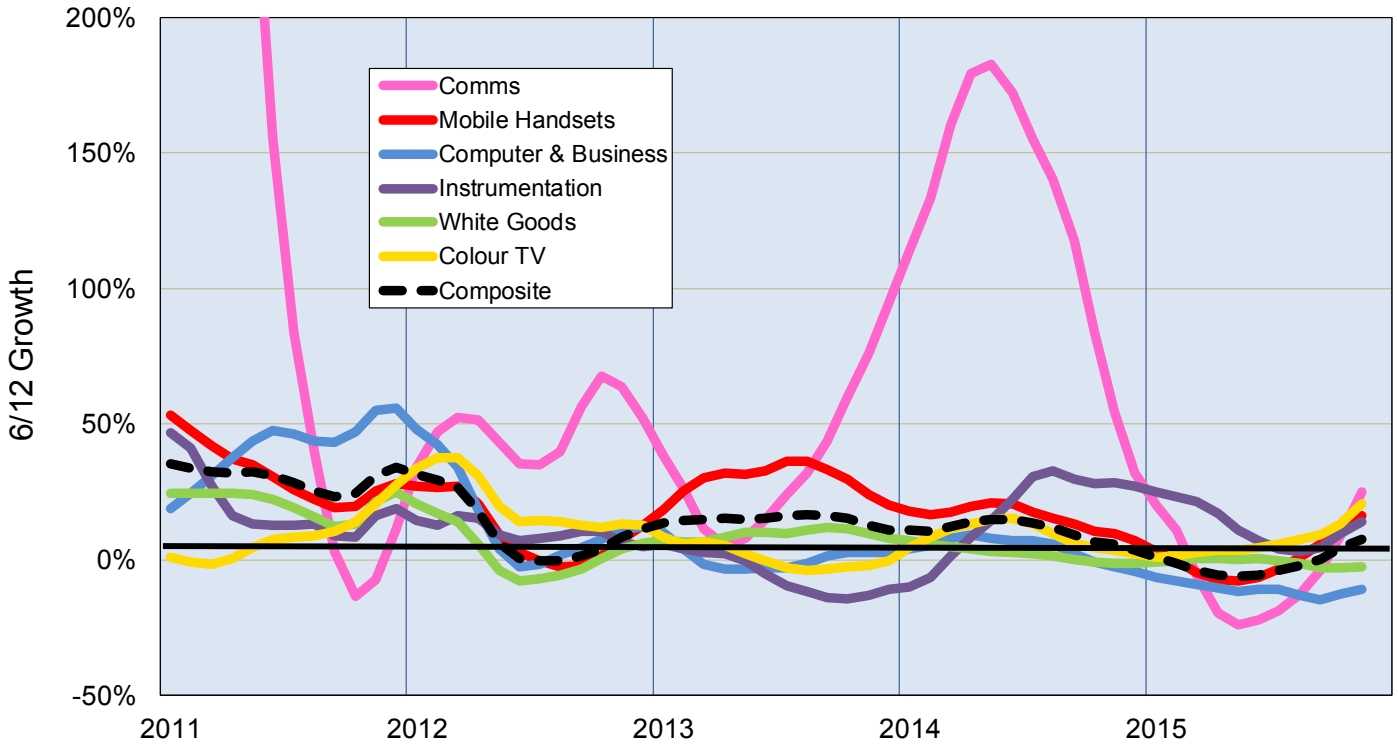
German Electronics Production Growth (6/12)



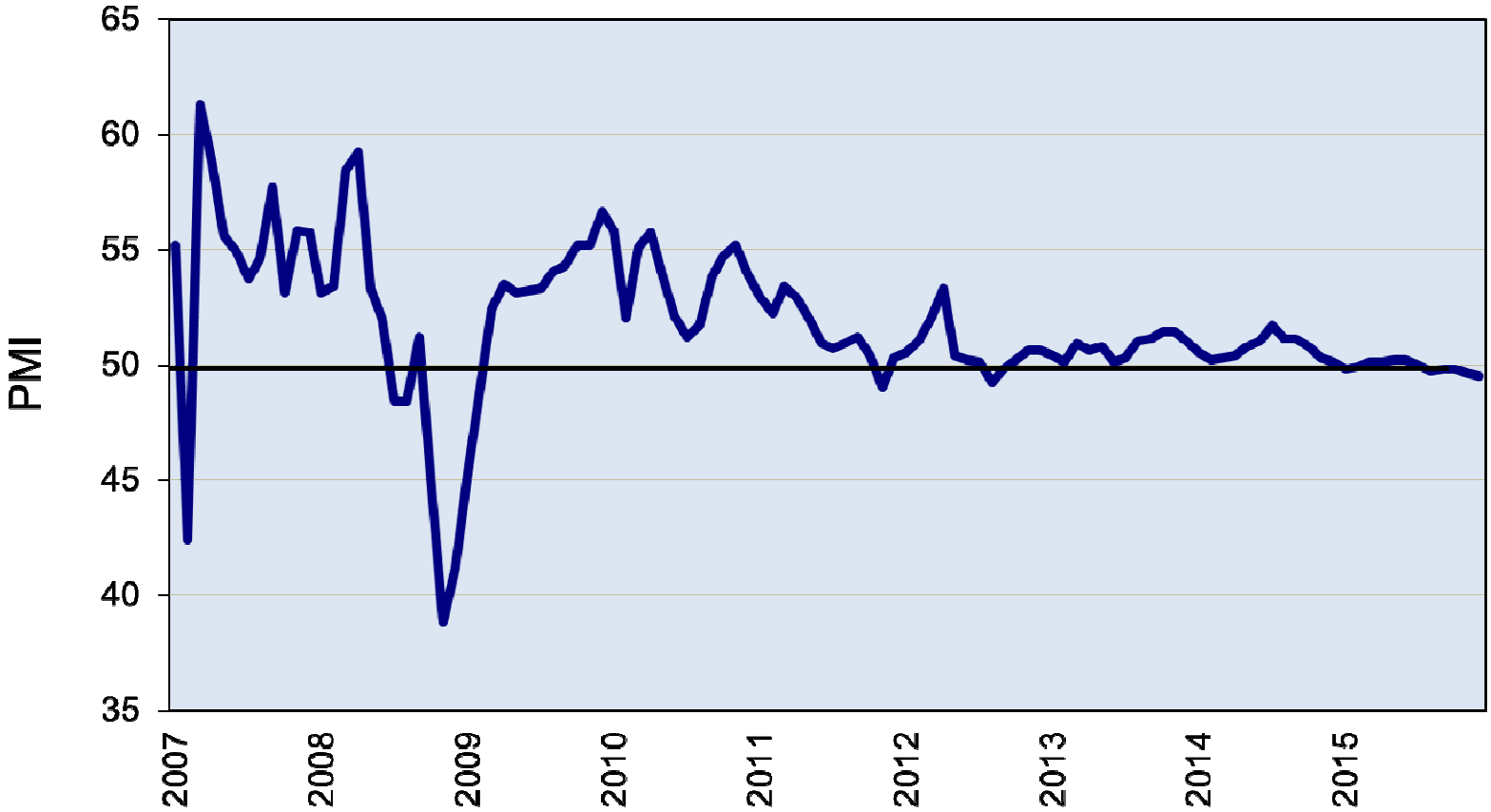
USA Electronics Production Growth (6/12)



China Electronics Output (6/12 Growth)



China PMI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PMI
2007
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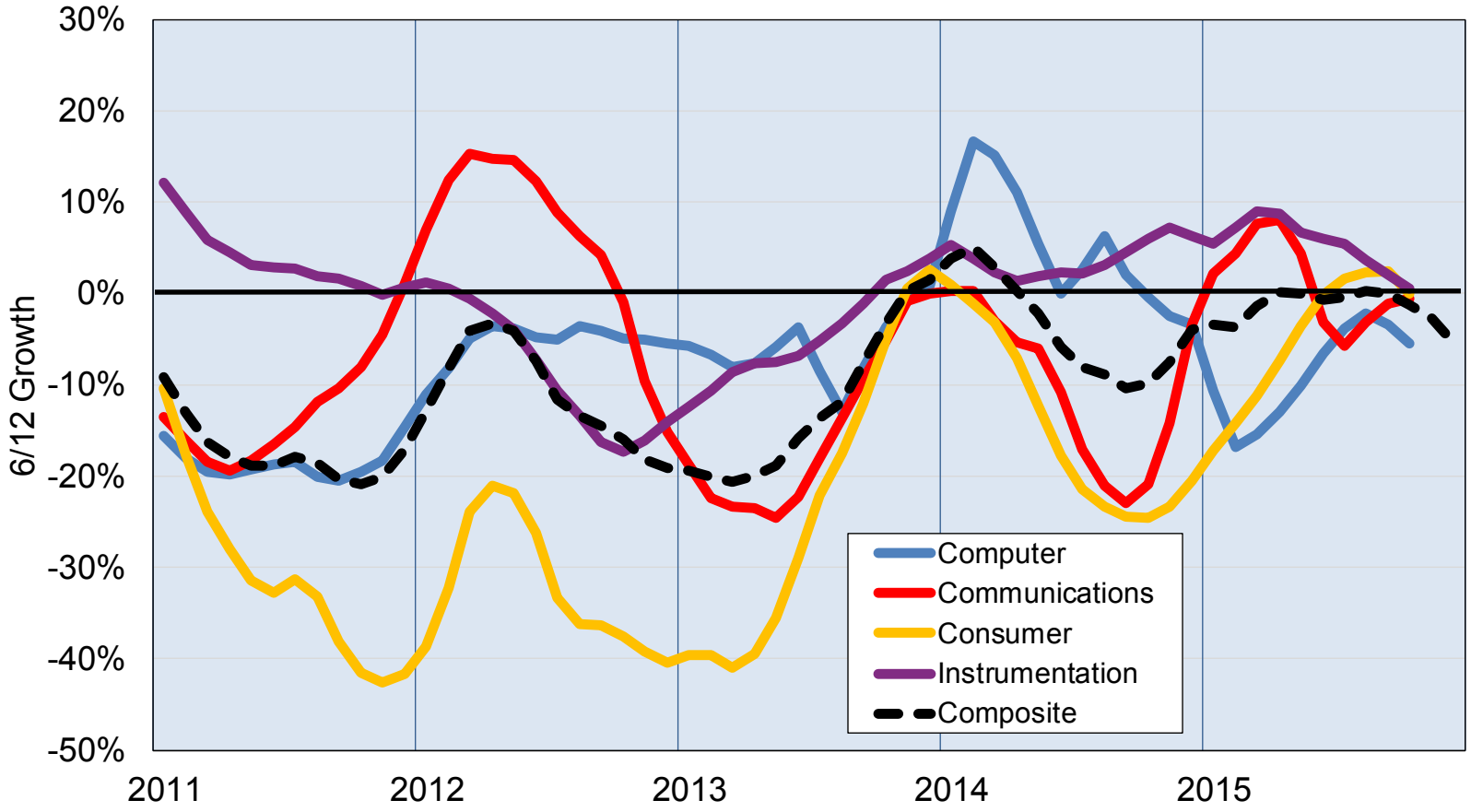
2013
2014
2015

Japan Electronics Production 6/12 Growth

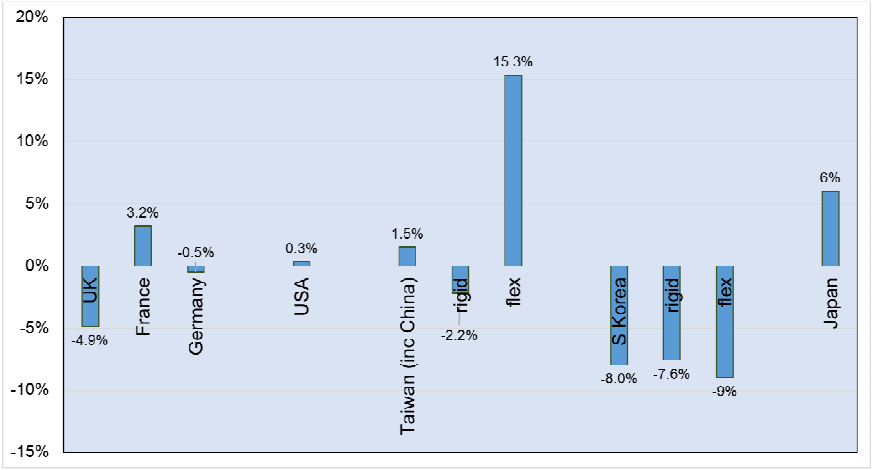


PCB Production Trends

Twenty five Top PCB Fabricators in 2015

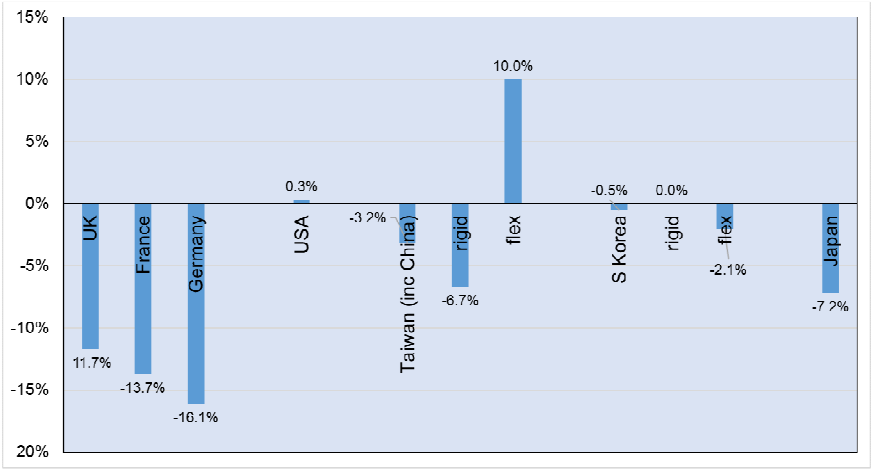
		2013	2014	2015	% change 2015/2014
1	Nippon Mektron	2675	3154	3589	13.8%
2	Zhen Ding	2154	2492	2702	8.4%
3	TTM (incl Viasystems)	1368	1325	2602	*10.1%*
	Viasystems	*1010*	*1038*	-	
4	Unimicron	2014	2035	2035	0.0%
5	Sumitomo Electric	1300	1279	1616	26.3%
6	Compeq	1038	1115	1394	25.0%
7	Tripod Technology	1348	1398	1365	-2.4%
8	Young Poong Group	1499	1523	1350	-11.4%
9	Samsung (SEMCO)	1729	1550	1342	-13.4%
10	Ibiden	1549	1458	1297	-11.0%
11	Shinko Electric Ind	1436	1318	1196	-9.3%
12	Daeduck GDS + Daeduck Elec.	1239	1219	*943*	-22.6%
13	Nan Ya PCB	1087	1153	943	-18.2%
14	Kingboard (incl. Elec & Eltek)	923	963	*875*	-9.1%
15	AT&S	783	831	845	1.7%
16	Fujikura	357	559	818	46.3%
17	LG Innotek	1012	838	817	-2.5%
18	Meiko	703	828	787	-5.0%
19	Global Brands	1115	991	732	-26.1%
20	Kinsus	776	823	726	-11.8%
21	Chin Poon	867	700	712	1.7%
22	Simmtech	483	624	661	5.9%
23	MFlex	731	632	637	0.8%
24	Gold Circuit Electronics	797	664	610	-8.1%
25	CMK	701	687	609	-11.4%
	Total	30694	31197	31203	1.6%

PCB Production Growth in 2015



Total PCB production in 2014: USD 60 billion

Growth in domestic currency

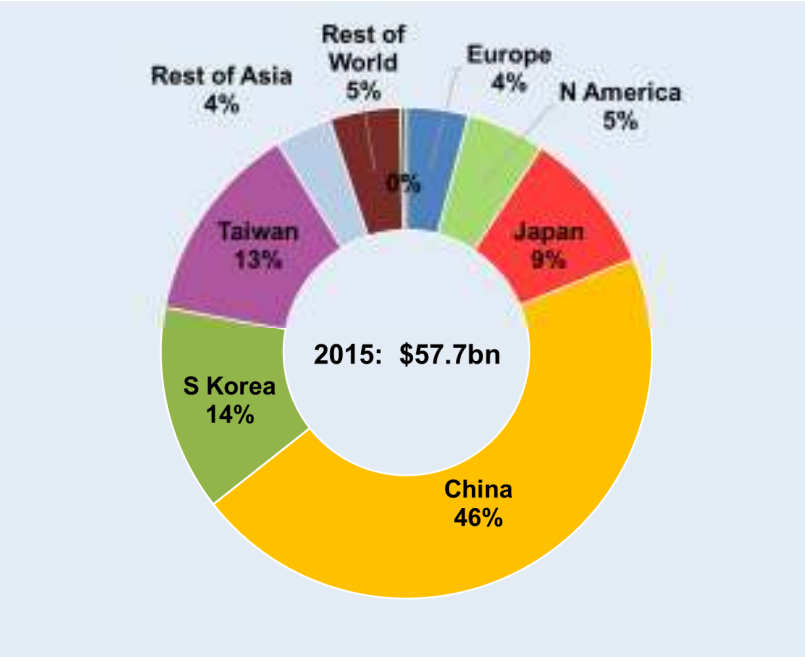


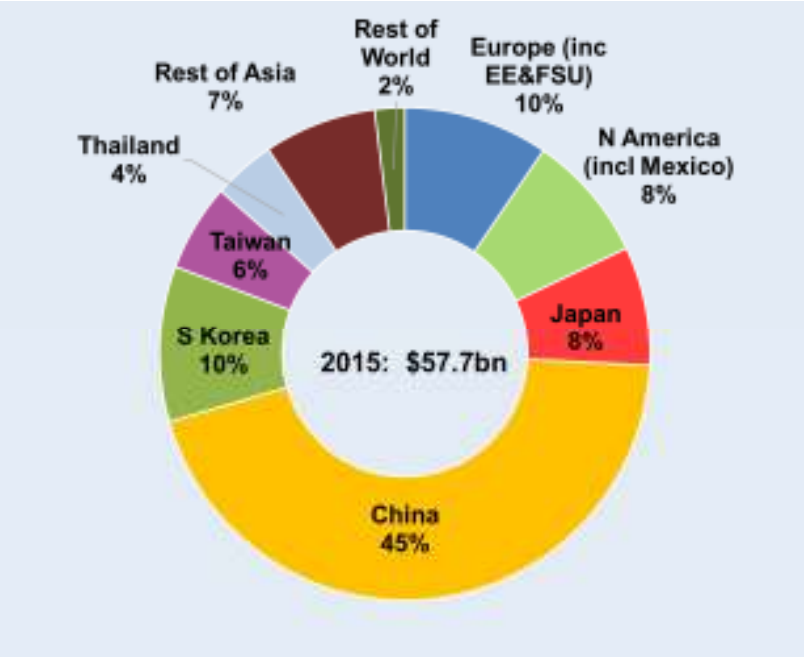
Growth in USD

Overall growth in 2015: -3%

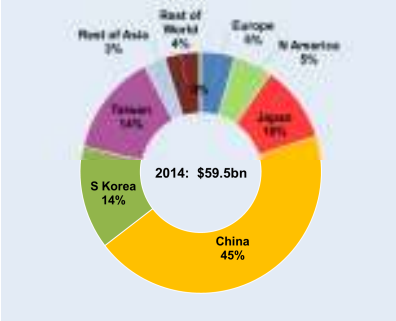
Estimated PCB production value in 2015: USD 57.8 billion

PCB Production and Market in 2015





Production



Market

Summary

- Electronics Equipment Production:
  - Europe and N America remaining strong in industrial, instrumentation and automation in 2015. Military expenditure low to flat but will creep up in 2016.
  - 4G LTE infrastructure equipment growth slowed in 2015 but industrial and instrumentation electronics production grew in China.
  - UK electronics down 1% in 2015. Up 3% in 2014.
- PCB production:
  - Declined in Europe (3%) so should see some recovery in 2016 but no growth.
  - No growth in North America
  - Further decline in Japan
  - Growth in Asia in domestic currency but negative growth in USD.
- Outlook
  - Expect 2016 to be similar to 2015 with recovery toward end of the year. Next surge in 2017-8.

Thank You

Any Questions?