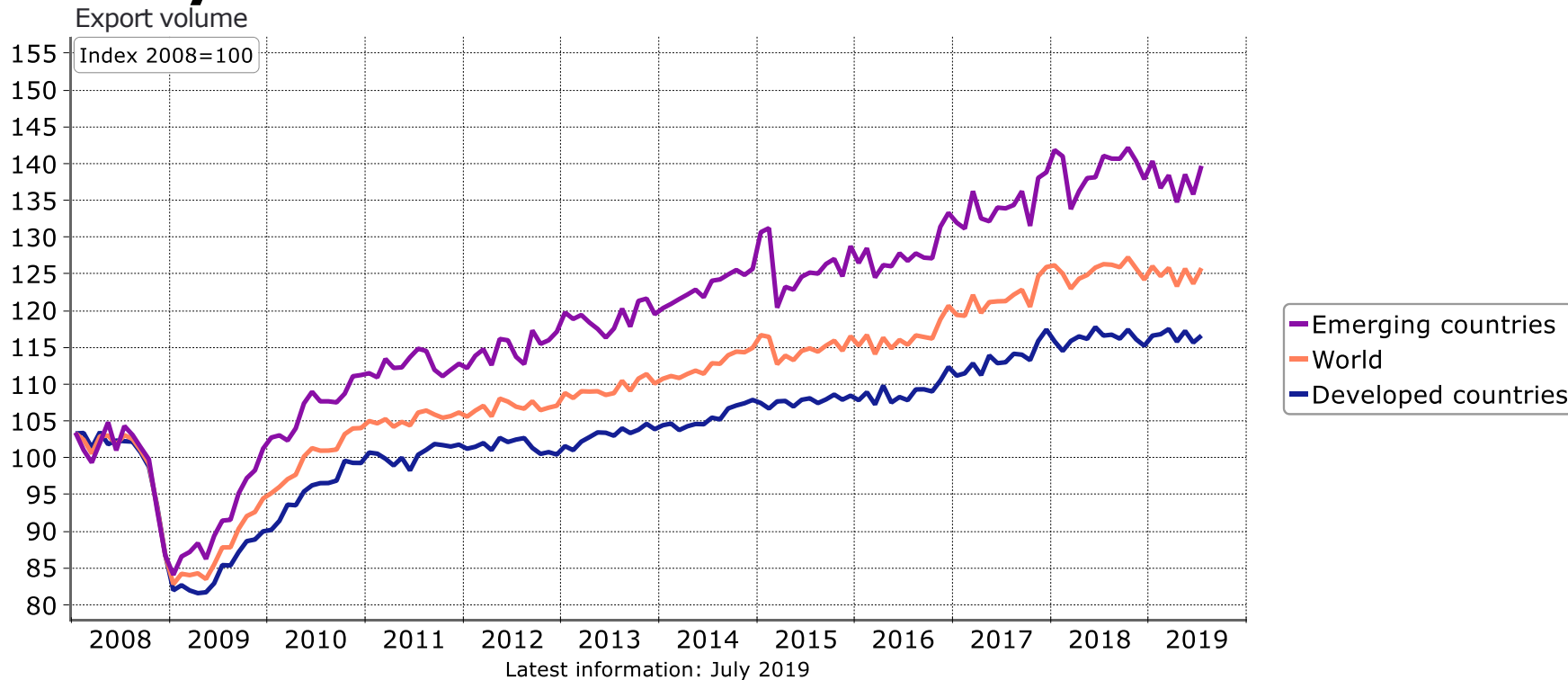
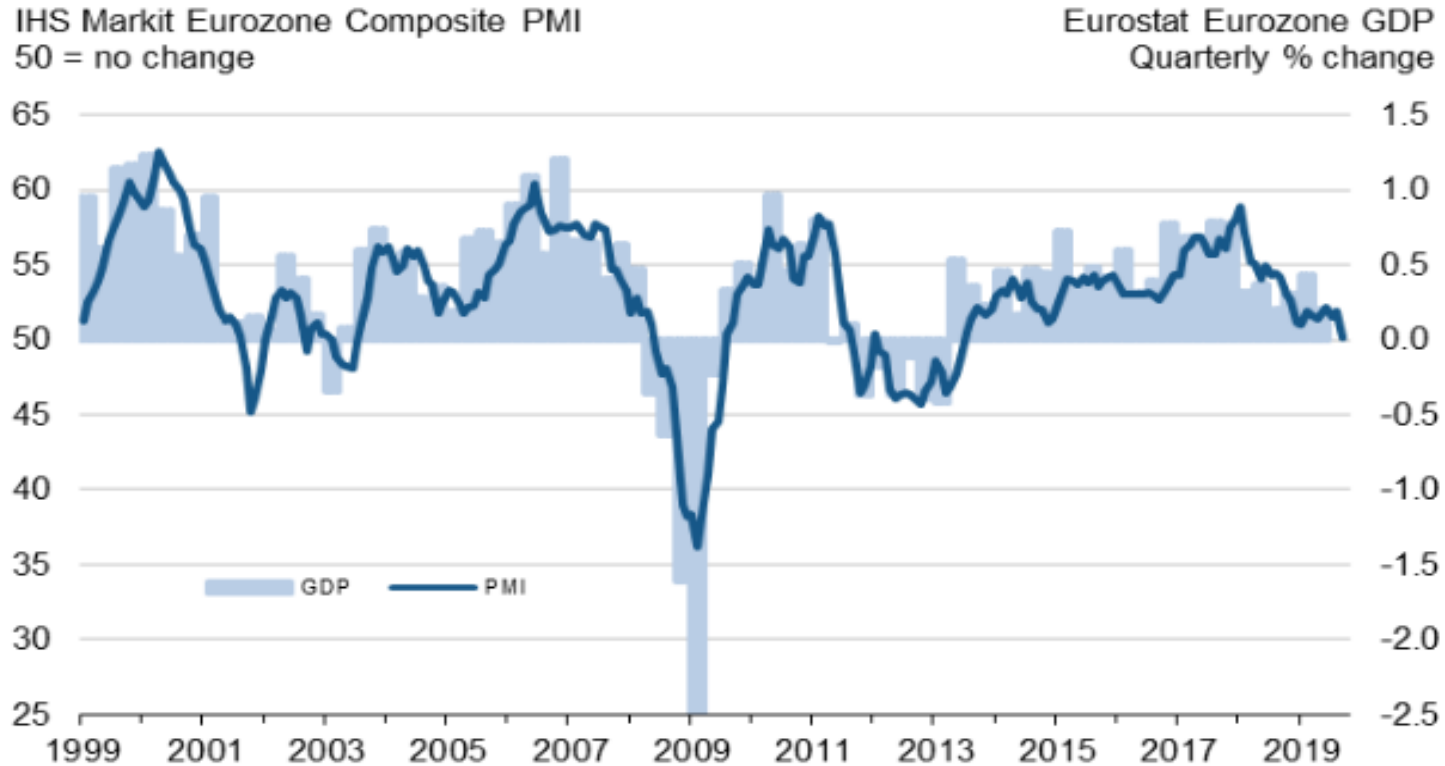


Growth of World trade has been Stagnated Already for One and Half Years



Purchasing Managers' Index Indicates that Growth has Stopped in Eurozone



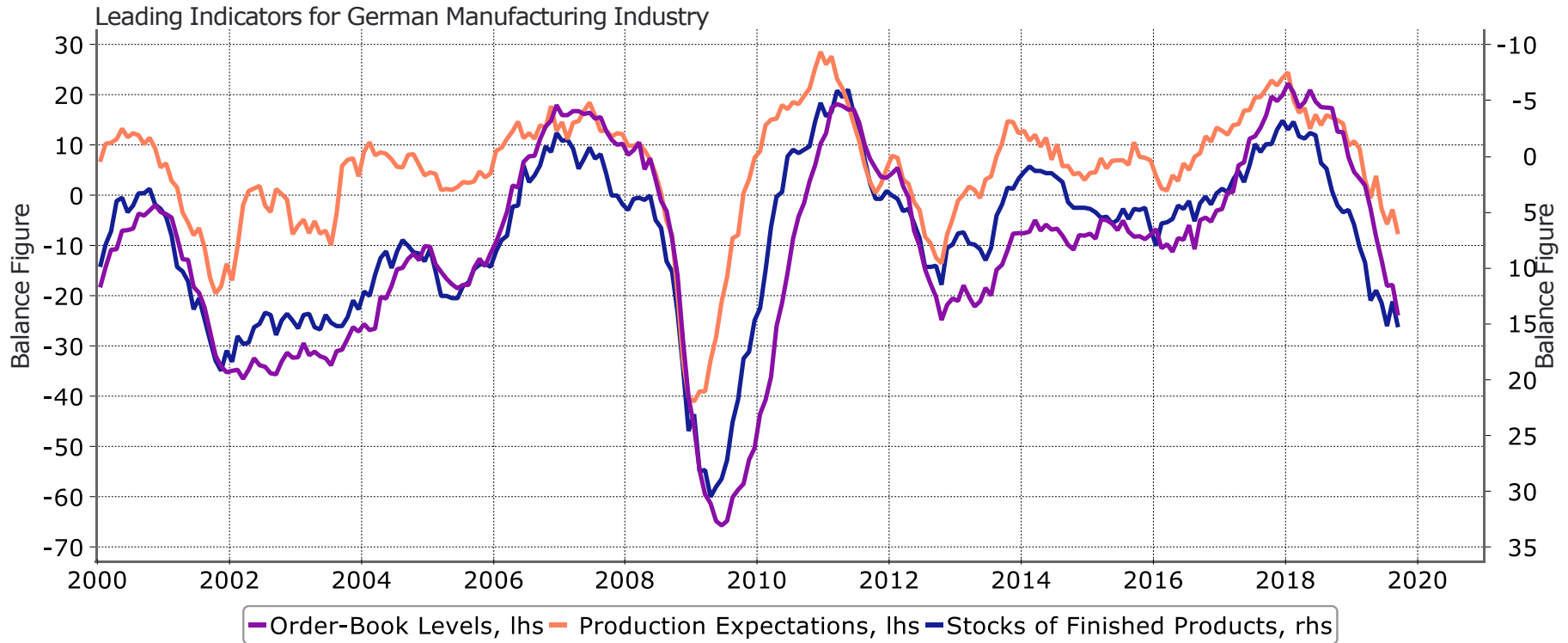
EDELLISEN KUVAN TAITTO KUIN TÄSSÄ 2/2019 RAPORTISSA (TAITTOON VUODESTA 2008 ALKAEN)



Economic Growth in the Euro Area Has Slowed Down Markedly



Downturn in German Manufacturing Industry Still Deepens

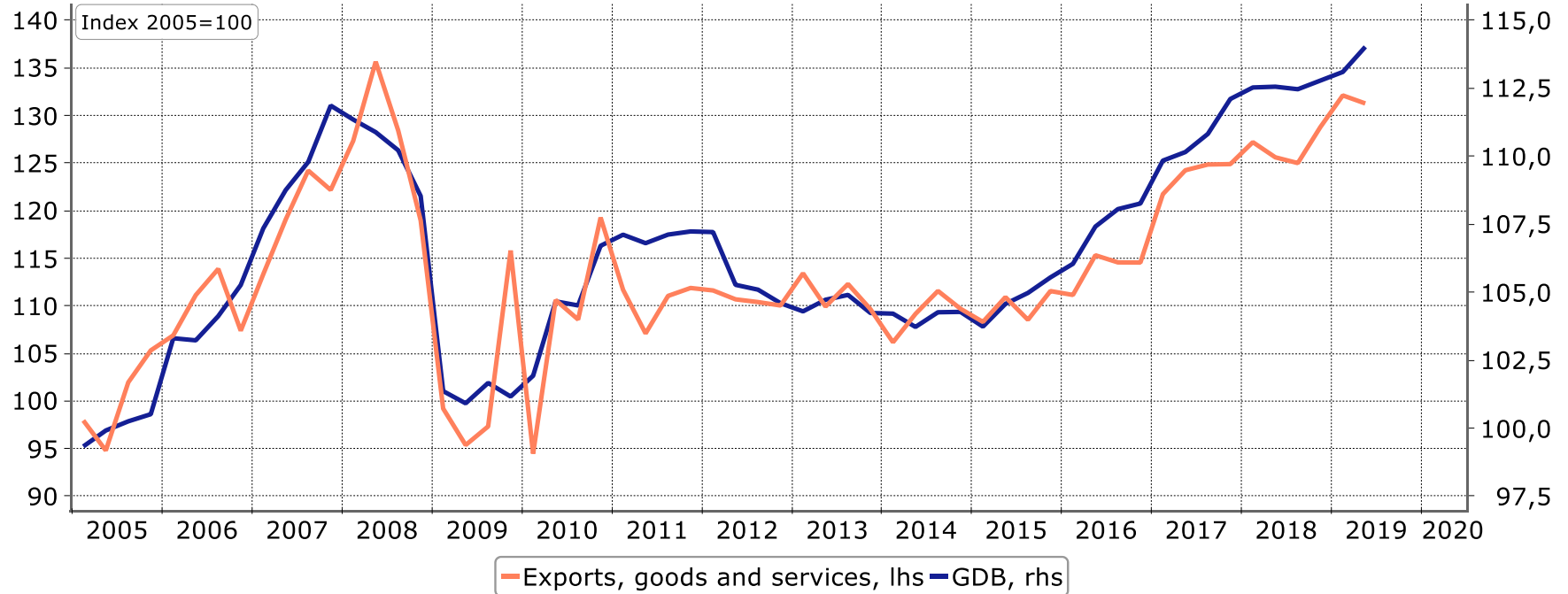


Economic Forecasts for Finland

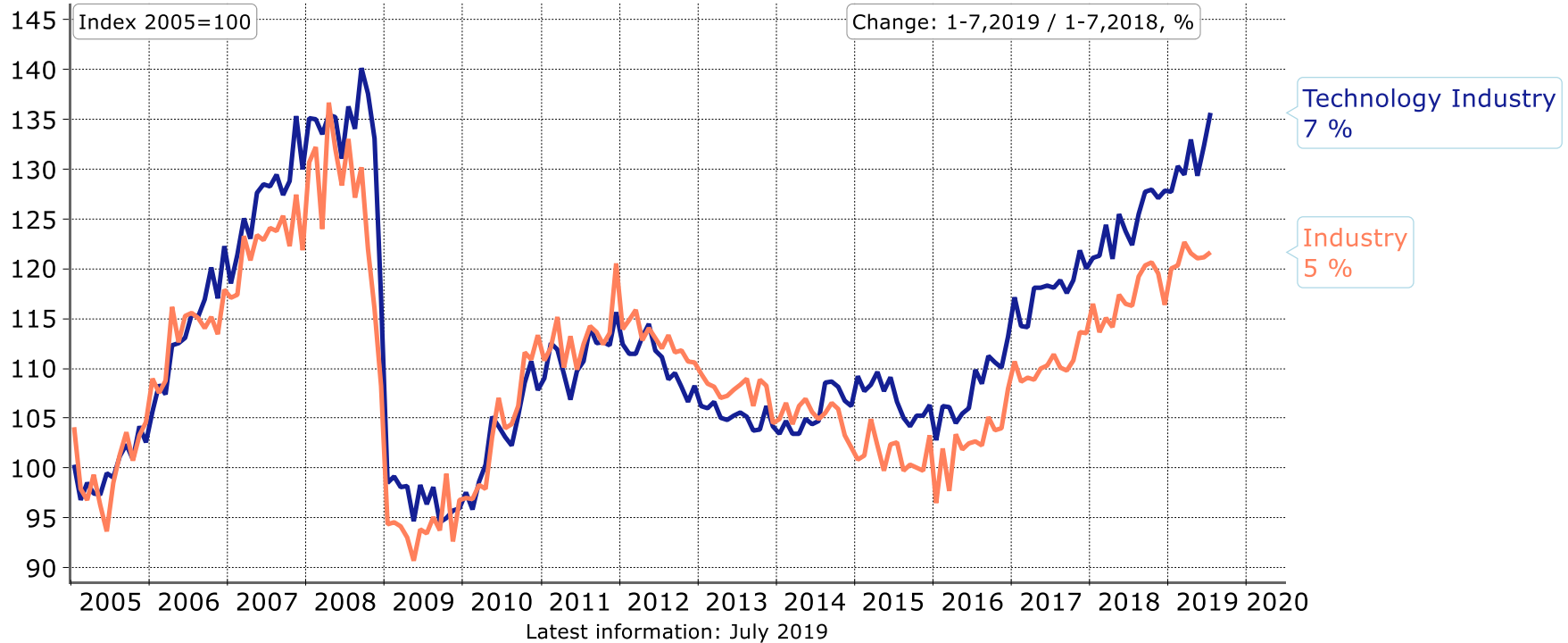


Forecaster	Date	Change in GDP, %			Change in private Consumption, %		Change in Exports, %		Change in Investments, %		Inflation, % *		Unemployment rate, %	
		2018	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020
Danske Bank	24.9.2019	1,7	1,2	0,8	0,8	1,0	3,5	1,5	0,5	0,6	1,1	1,4	6,6	6,6
	Nordea 4.9.2019	1,7	1,2	1,0	1,0	1,4	3,0	1,0	0,5	0,1	1,1	1,3	6,4	6,4
OP-Pohjola	19.8.2019	1,7	1,2	0,5	1,0	0,8	2,0	0,8	1,5	0,6	1,0	1,1	6,5	6,5
Ministry of Finance	7.10.2019	1,7	1,5	1,0	1,7	1,4	2,4	2,4	0,4	-0,3	1,1	1,4	6,5	6,3
Bank of Finland	11.6.2019	2,3	1,6	1,5	1,3	1,4	2,8	2,1	1,8	1,6	1,2	1,3	6,5	6,4
ETLA	16.9.2019	1,7	1,1	0,9	0,7	1,1	3,8	1,3	1,4	0,8	1,1	1,1	6,5	6,3
PTT	12.9.2019	1,7	1,3	1,2	1,2	1,0	2,5	1,5	0,6	0,5	1,0	1,0	6,6	6,9
PT	17.9.2019	1,7	1,3	1,1	1,0	0,9	4,0	2,0	1,4	-1,0	1,1	1,0	6,6	6,7
European commission	2.7.2019	1,7	1,5	1,2	1,6	1,4	3,2	3,4	1,6	1,3	1,4	1,8	6,7	6,0
IMF	15.10.2019	1,7	1,2	1,5			3,1	2,2			1,2	1,3	6,5	6,4
Average		1,8	1,3	1,1	1,1	1,2	3,0	1,8	1,1	0,5	1,1	1,3	6,5	6,5

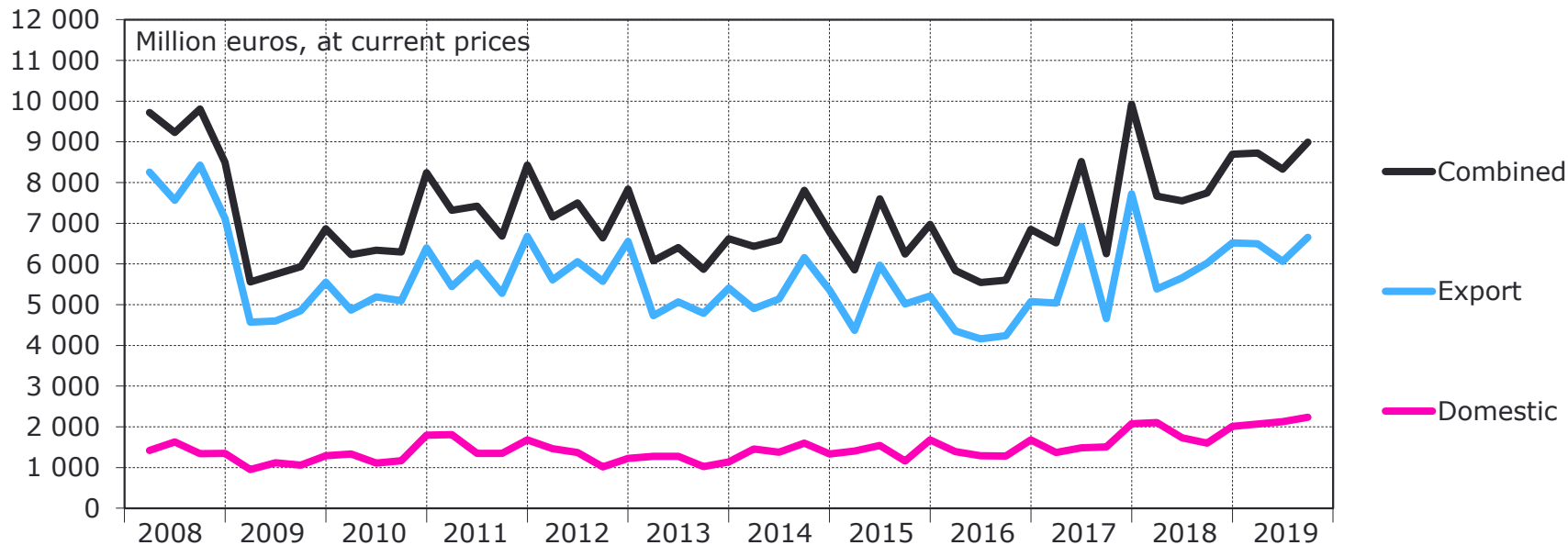
Growth of Finnish Economy and Performance of Export Sector Goes in Hand in Hand



Turnover of Finnish Technology Industry was 79 billion Euros in Year 2018



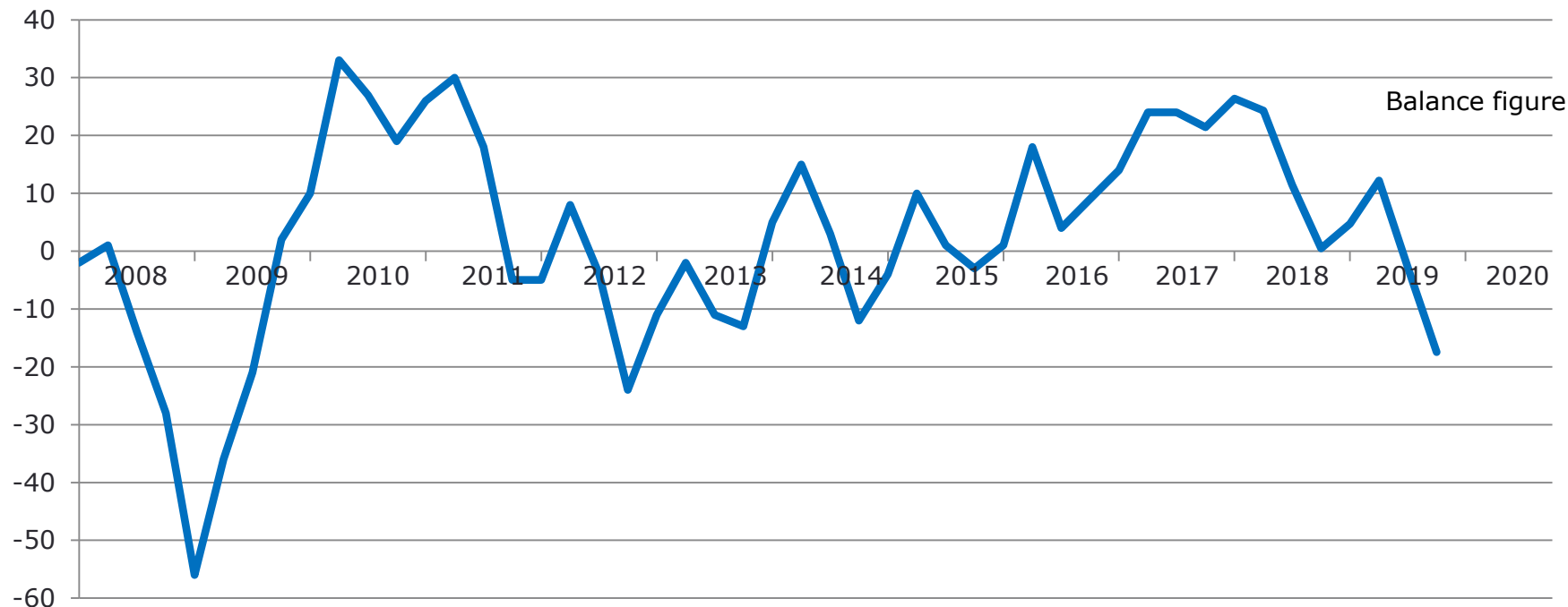
Value of New Orders in the Technology Industry* in Finland



Change:	III,2019 / III,2018	III,2019 / II,2019
Export:	+11 %	+10 %
Domestic:	+39 %	+5 %
Combined:	+16 %	+8 %

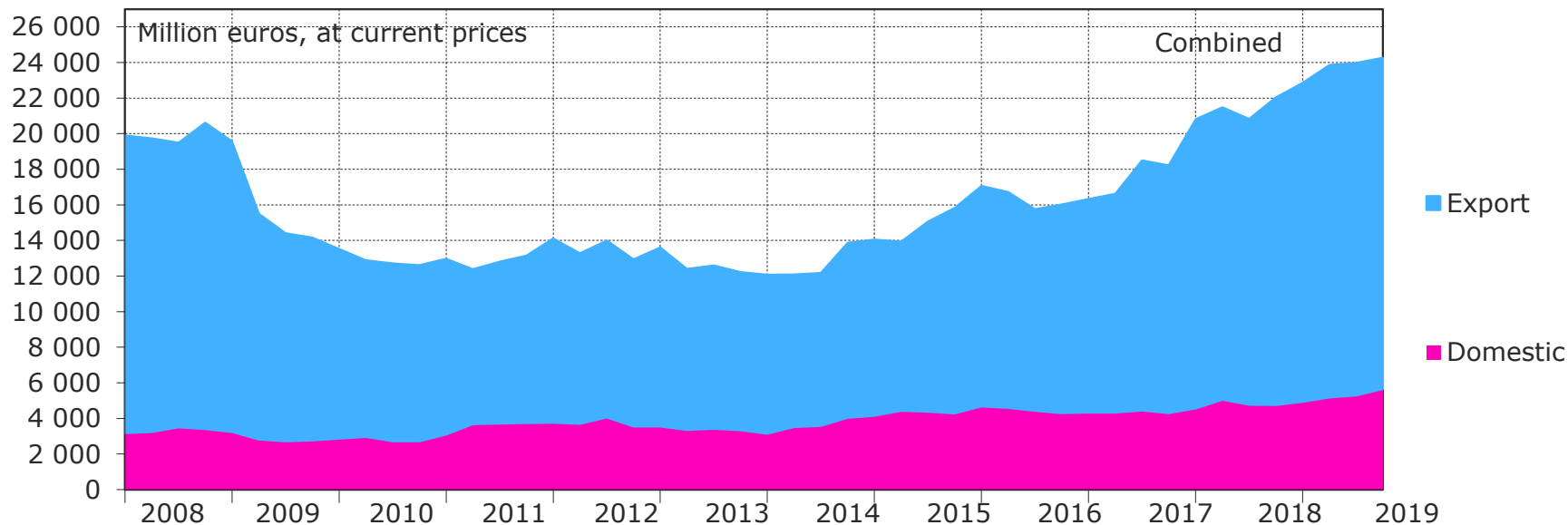
*) Excl. metals industry, game industry and data center companies

Tender Requests* Received by the Technology Industry Companies in Finland



*) "Have you experienced a notable increase or decrease in the number of requests for tenders in recent weeks in comparison to the situation three months ago?". Balance figure = the number of companies receiving more requests - the number of companies receiving less requests."

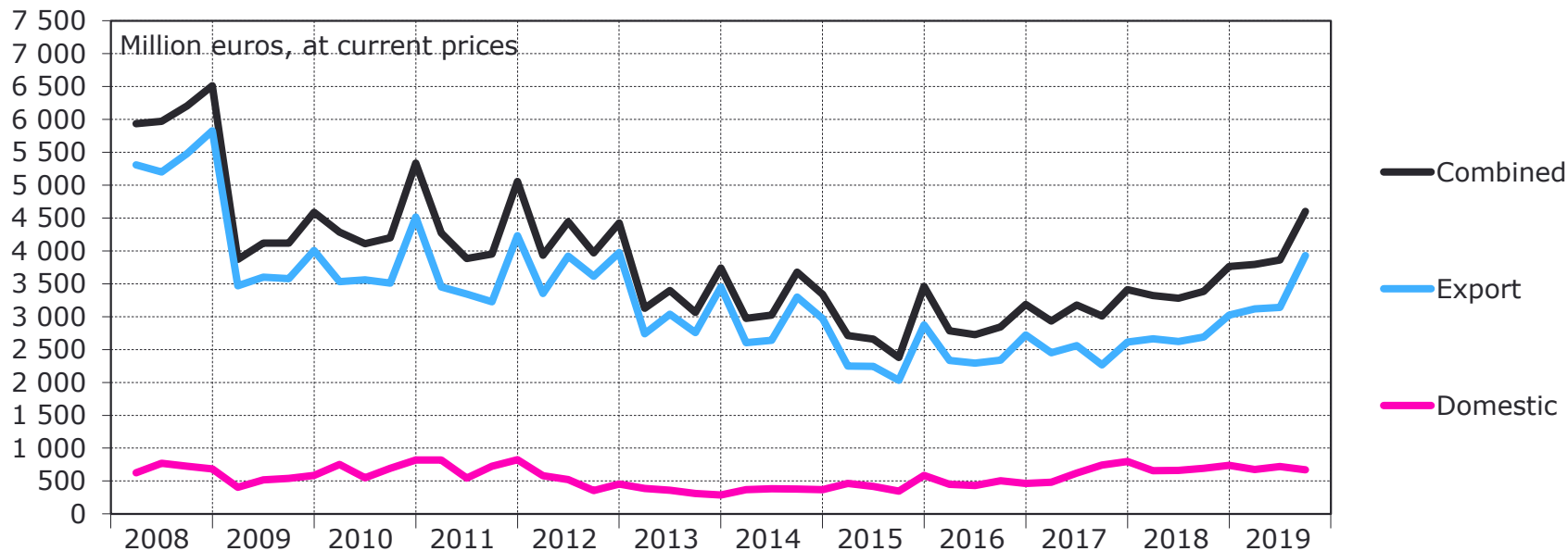
Value of Order Books in the Technology Industry* in Finland



Change:	30.9.2019 / 30.9.2018	30.9.2019 / 30.6.2019
Export:	+8 %	0 %
Domestic:	+19 %	+7 %
Combined:	+10 %	+1 %

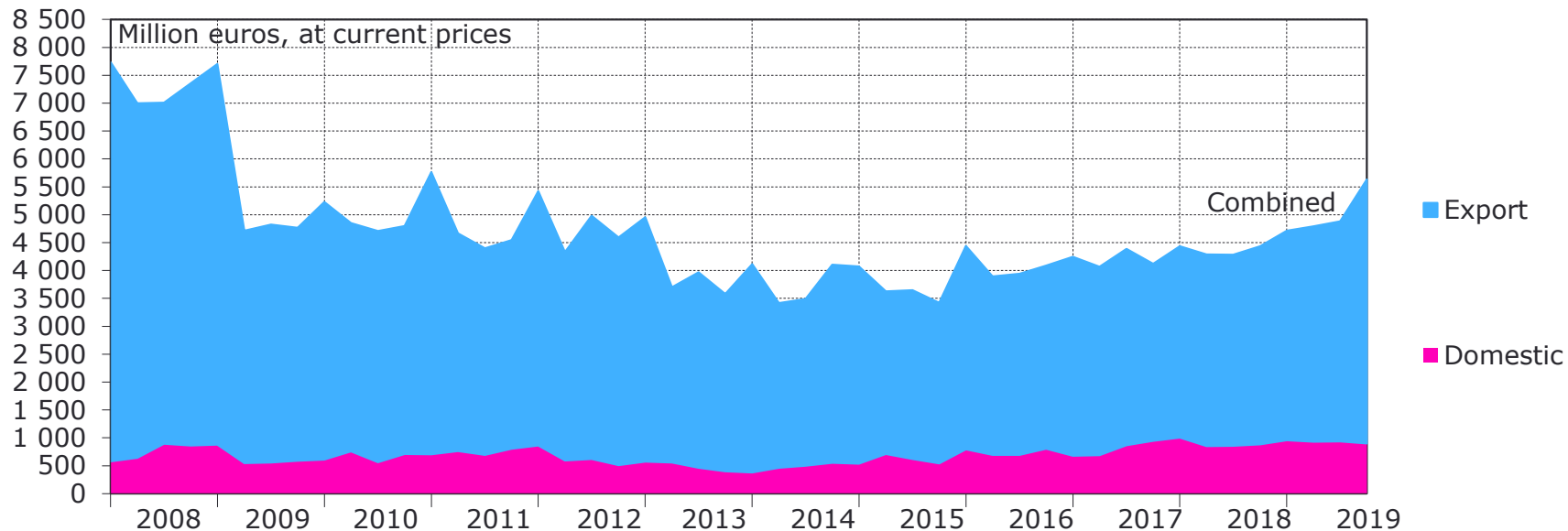
*) Excl. metals industry, game industry and data center companies

Value of New Orders in the Electronics and Electrotechnical Industry in Finland



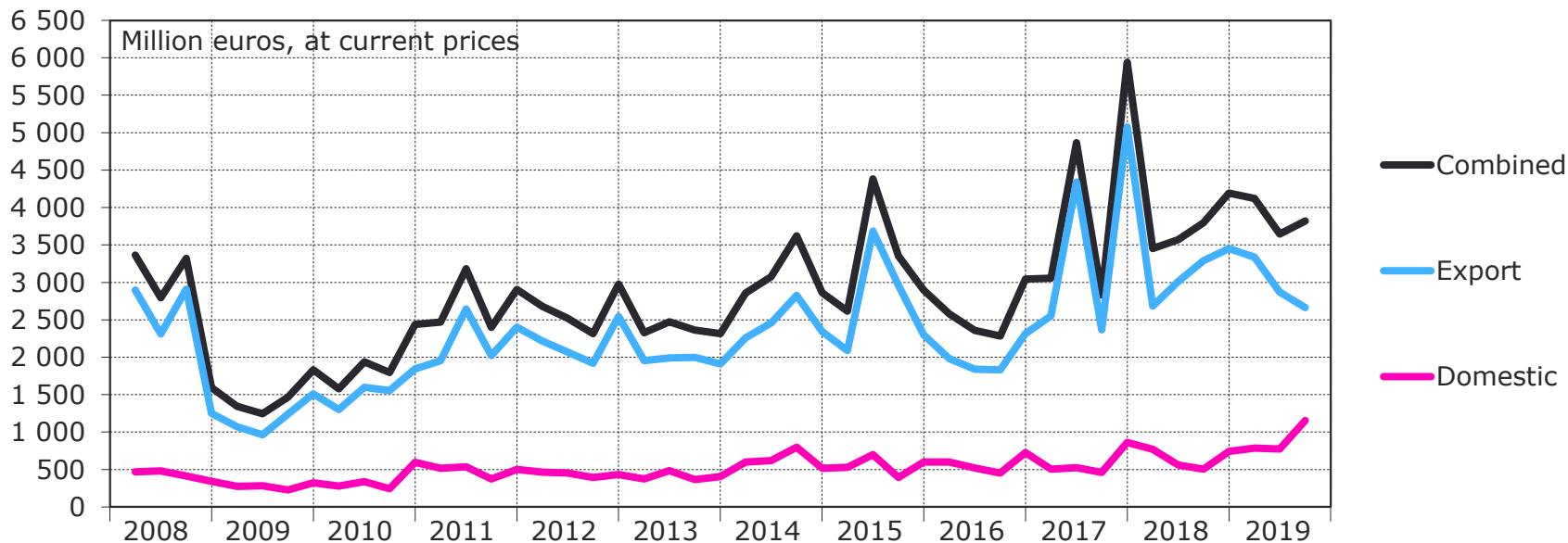
Change:	III,2019 / III,2018	III,2019 / II,2019
Export:	+46 %	+25 %
Domestic:	-3 %	-7 %
Combined:	+36 %	+19 %

Value of Order Books in the Electronics and Electrotechnical Industry in Finland



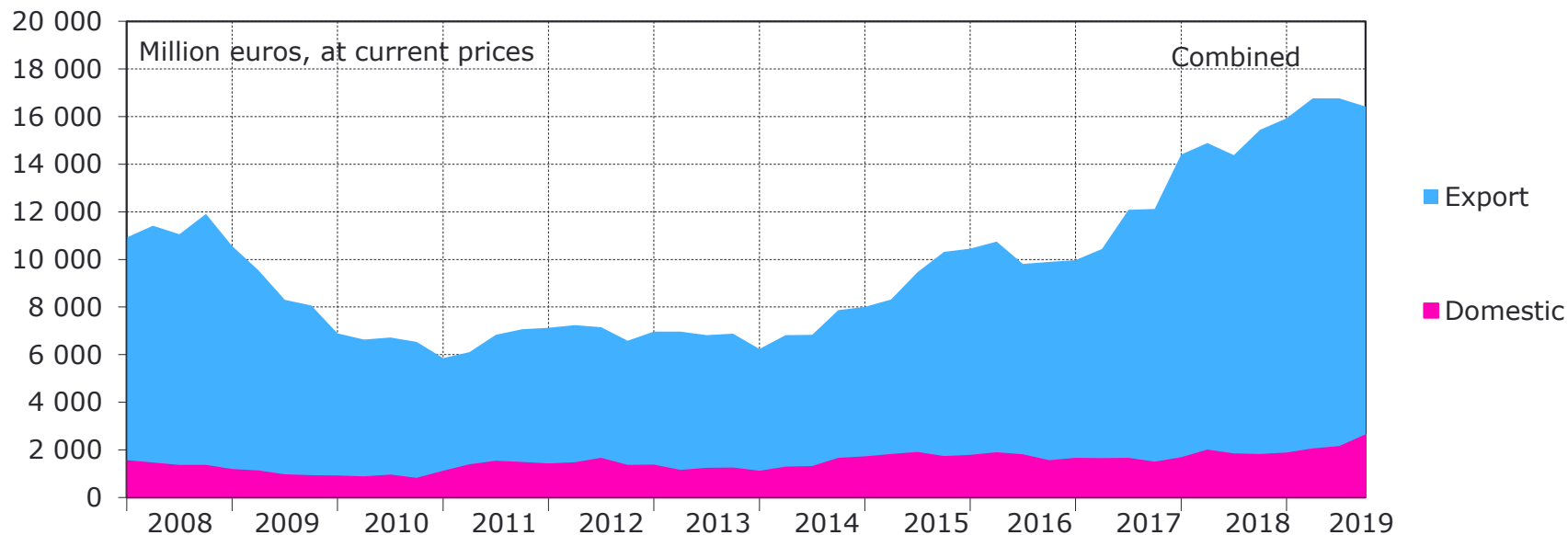
Change:	30.9.2019 / 30.9.2018	30.9.2019 / 30.6.2019
Export:	+33 %	+20 %
Domestic:	+2 %	-4 %
Combined:	+27 %	+15 %

Value of New Orders in the Mechanical Engineering in Finland



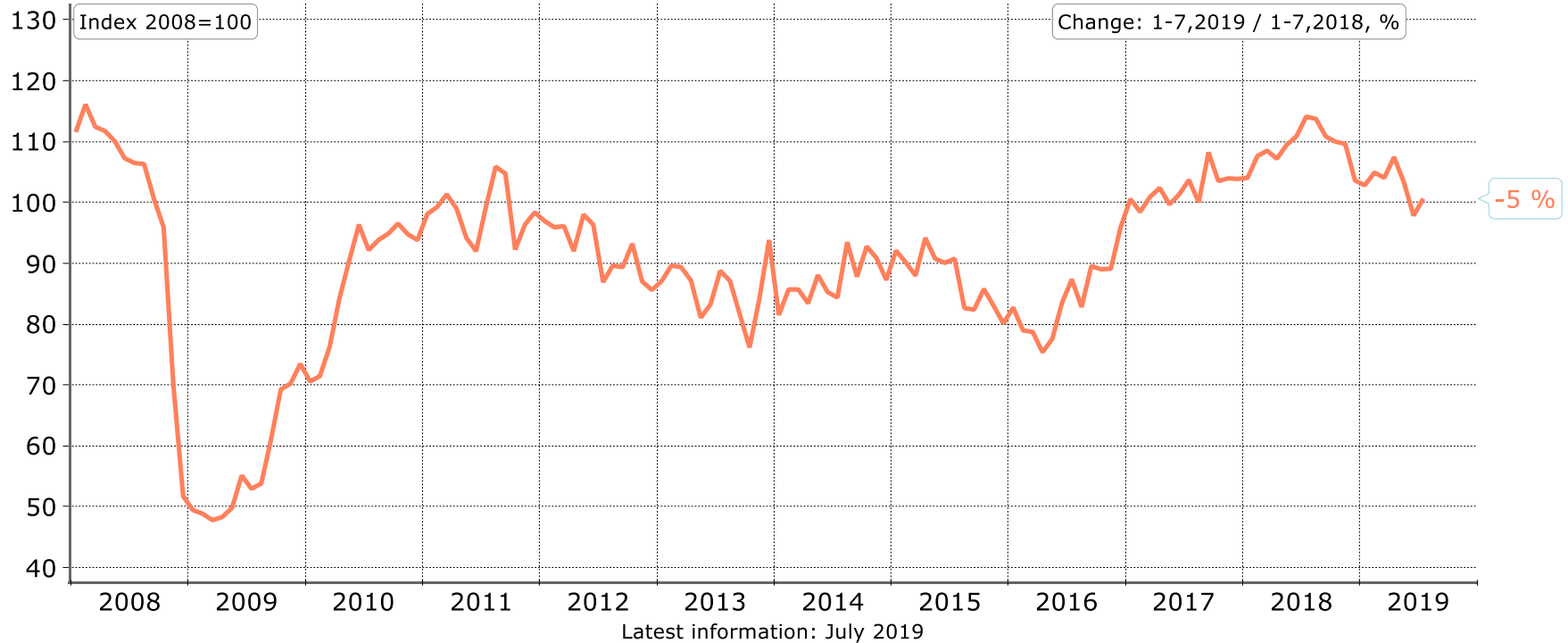
Change:	III,2019 / III,2018	III,2019 / II,2019
Export:	-19 %	-7 %
Domestic:	+128 %	+50 %
Combined:	+1 %	+5 %

Value of Order Books in the Mechanical Engineering in Finland

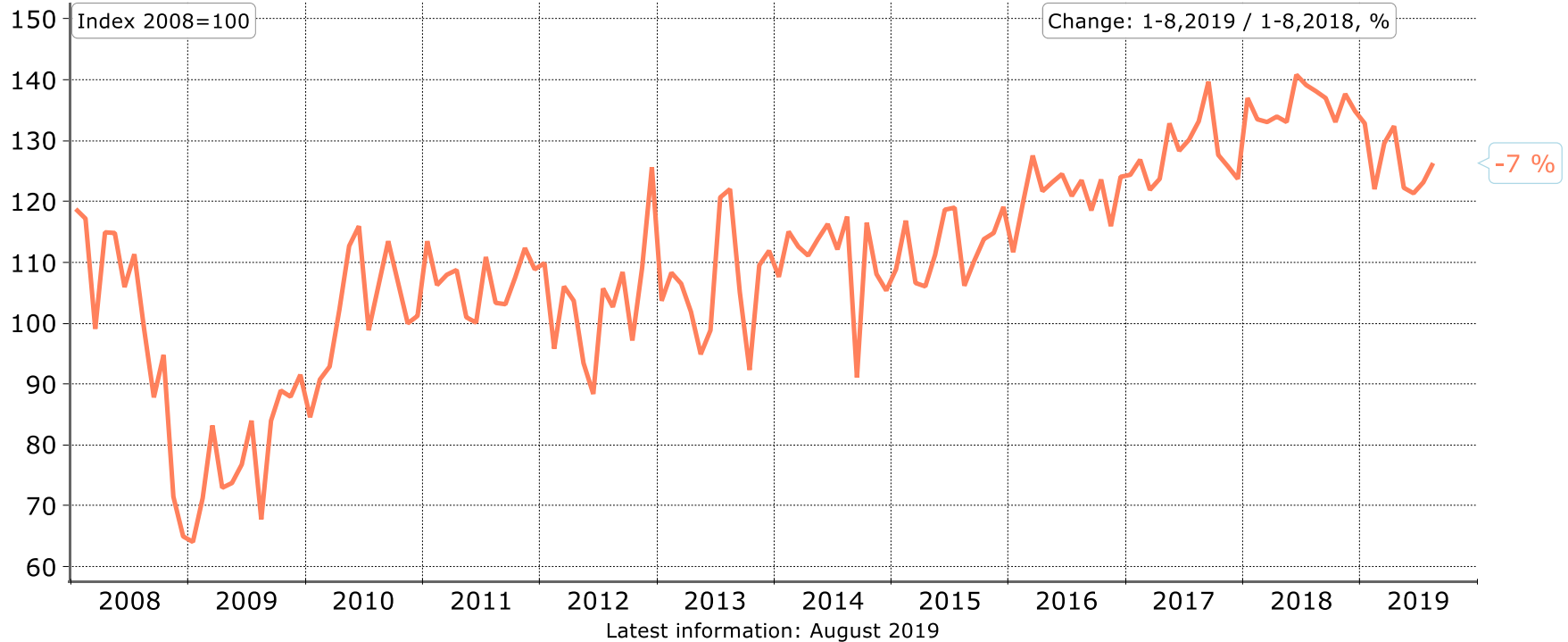


Change:	30.9.2019 / 30.9.2018	30.9.2019 / 30.6.2019
Export:	+1 %	-6 %
Domestic:	+45 %	+23 %
Combined:	+6 %	-2 %

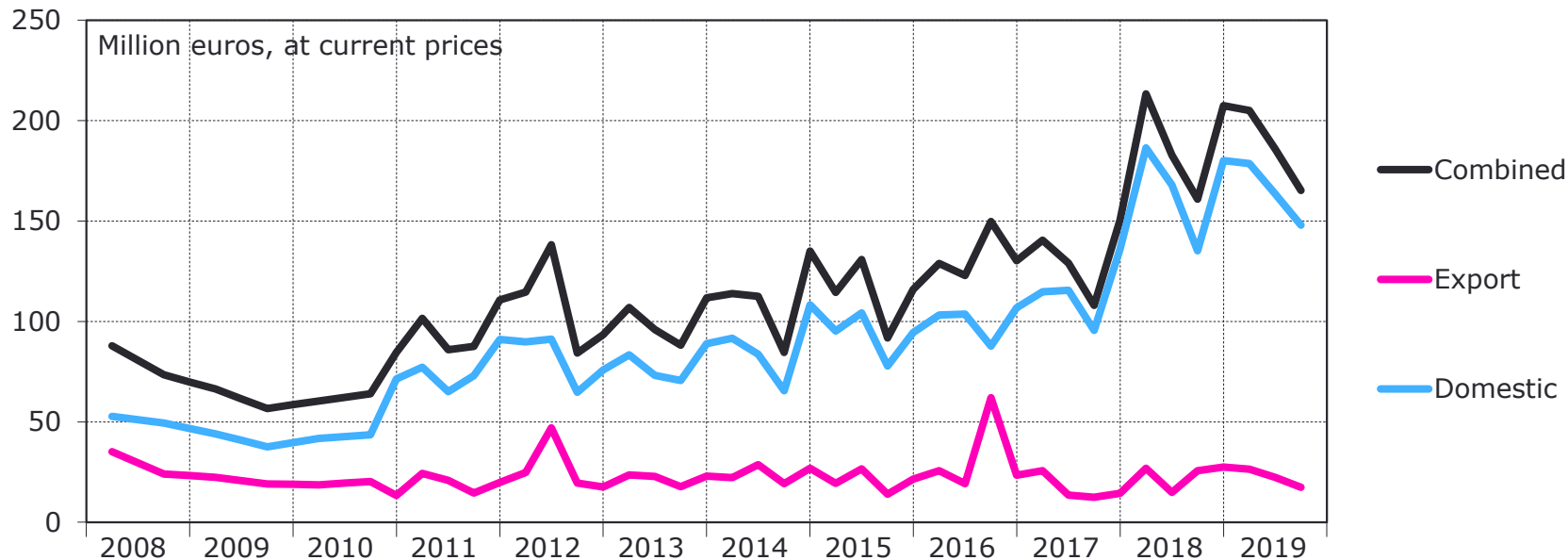
Turnover of the Metals Industry in Finland



Production Volume of the Metals Industry in Finland

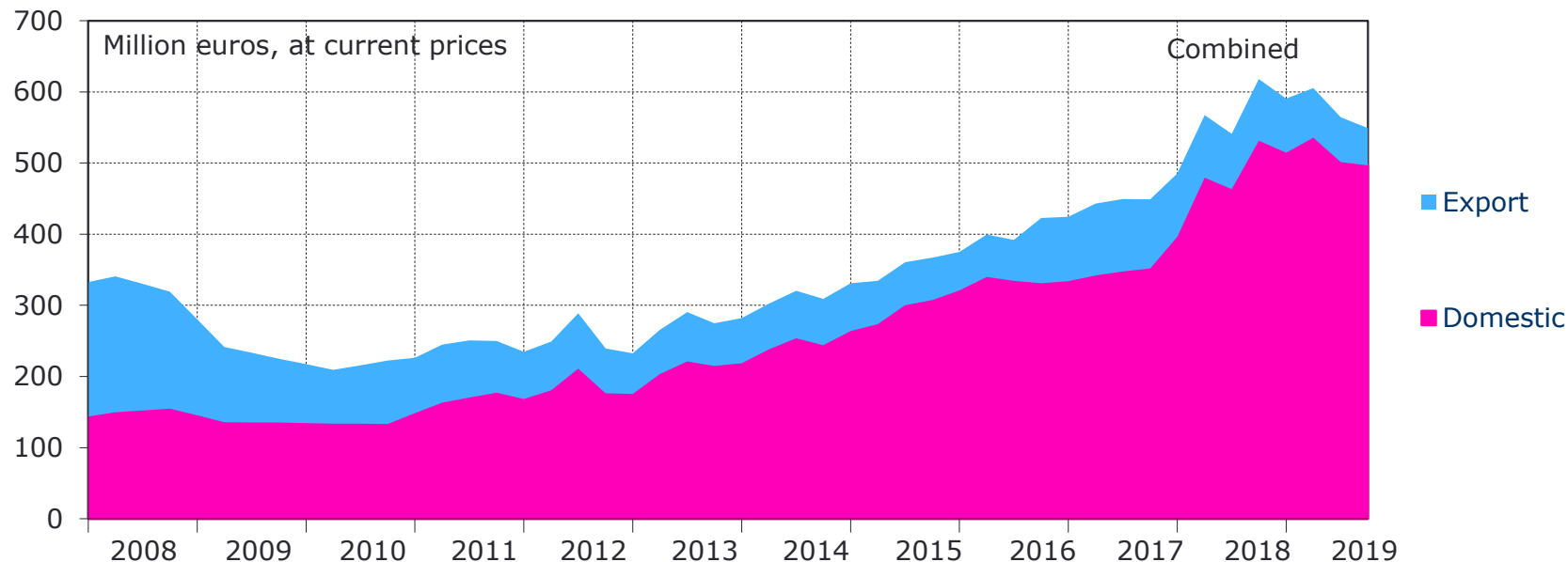


Value of New Orders in the Consulting Engineering in Finland



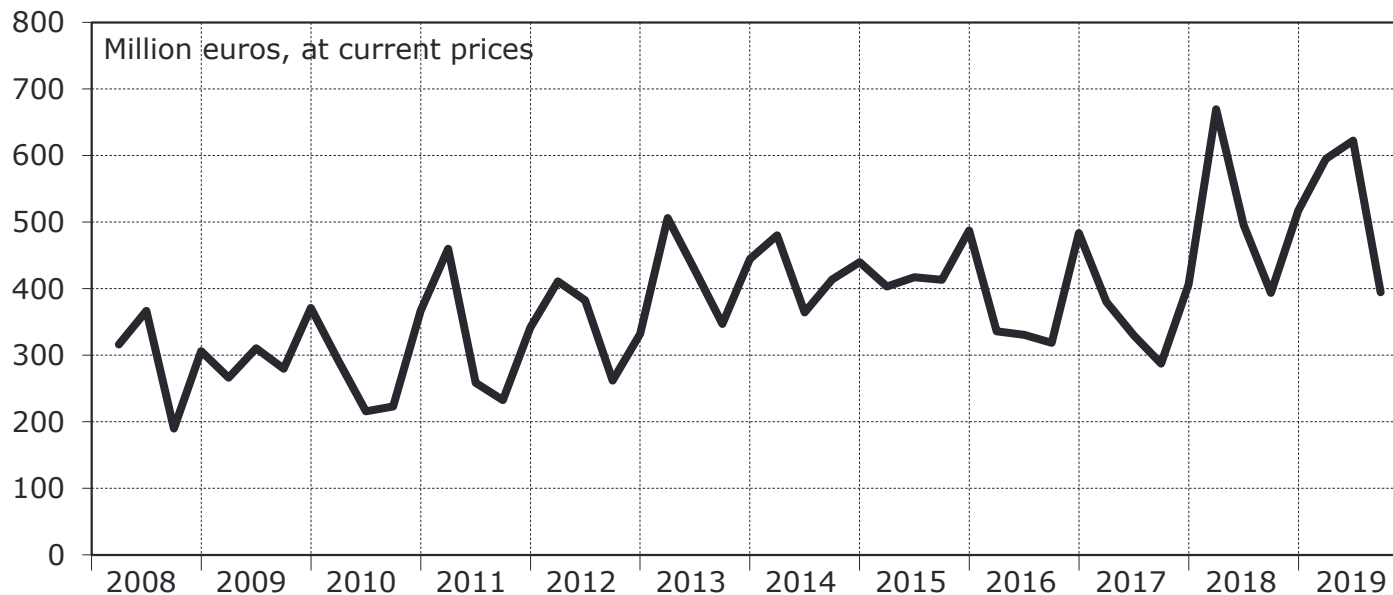
Change:	III,2019 / III,2018	III,2019 / II,2019
Export:	-32 %	-22 %
Domestic:	+9 %	-10 %
Combined:	+3 %	-11 %

Value of Order Books in the Consulting Engineering in Finland



Change:	30.9.2019 / 30.9.2018	30.9.2019 / 30.6.2019
Export:	-40 %	-17 %
Domestic:	-7 %	-1 %
Combined:	-11 %	-3 %

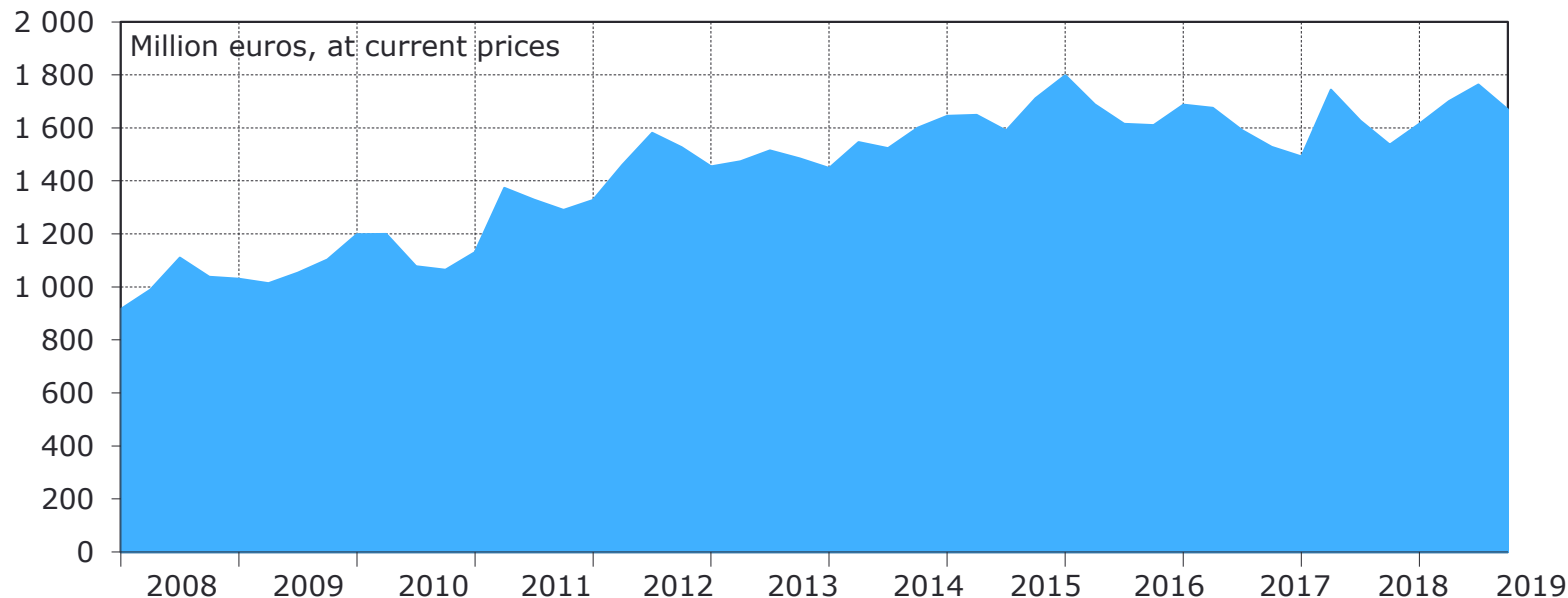
Value of New Orders in the Information Technology* in Finland



Change:	III,2019 / III,2018	III,2019 / II,2019
Combined:	0 %	-37 %

*) Excl. game industry and data center companies

Value of Order Books in the Information Technology* in Finland



Change:	30.9.2019 / 30.9.2018	30.9.2019 / 30.6.2019
Combined:	+9 %	-3 %

*) Excl. game industry and data center companies