



European Union Relationship & Industrial Strategy

Weekly

**BREXIT WATCH**

Week 37

September 2017

## Brexit Watch - Week 37

The weekly Brexit Watch report monitors the short-term UK macro economic indicators to assess the impact of the referendum vote and the subsequent triggering of Article 50 on UK economy. The report also monitors indicators in 4 manufacturing industries, namely, Electrical (SIC 27), Electronic (SIC 26), Mechanical (SIC 28) and Fabricated Metals (SIC 25).

The emphasis of this report is to monitor what has happened as opposed to what will happen. All the data with exception to exchange rates and OECD Composite indicator come from the Office for National Statistics (ONS).

To make it easy to differentiate between trends before and after the referendum vote, each chart has a vertical purple line which marks 23rd of June 2016, the date of the referendum.

The main points at the end of week 37 in 2017 are as follows:

- **Sterling** average rate with **US Dollar** in the first 15 days of September 2017 surged to 1.3175; the highest since the referendum vote.
- **Input prices** increased by 7.6% in August 2017 compared to a year earlier.
- **Consumer price index** grew by 2.9% in the twelve months to August 2017, driven by rising prices for clothing and motor fuels.
- **Index of production** grew by 0.4% in the twelve months to July 2016.
- The first estimate of UK **GDP** growth in the second quarter of 2017 was 0.3%; equivalent to £472.9 billion and a growth of 1.7% compared to 2016 Q2.
- **Unemployment** rate decreased to 4.3% in the three months to July 2017; the lowest rate since May 1975.
- **Retail sales volume** grew by 1.3% in the twelve months to July 2017.
- **Business investment** for all industries unchanged in 2017 Q2 compared to a year earlier.
- **Exports** trade in **value** grew by 9.6% in July 2017 to £49.6 billion compared to twelve months earlier and **imports** also grew by 7.4% to £52.5 billion in the same period.
- The **construction output**, at constant prices, fell by 0.4% to £11.4 billion in July 2017 compared twelve months earlier.
- **Employment** levels (including self-employment) improved in 2017 Q2 across the four monitored industries. The combined workforce increased by 3.9% to 753 thousand in the year to 2017 Q2. Workforce in **Electronic** sector grew by 5.9%, **Fabricated Metals** grew by 5.1%, **Mechanical** grew by 2.2%, and **Electrical** sector held up with no annual growth.

September 2017  
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## Glossary

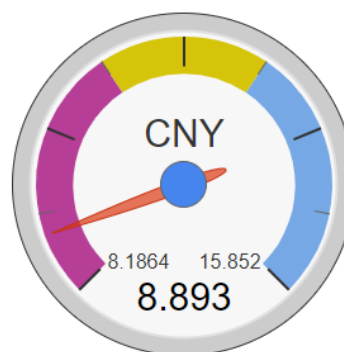
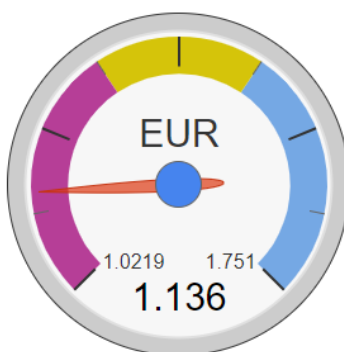
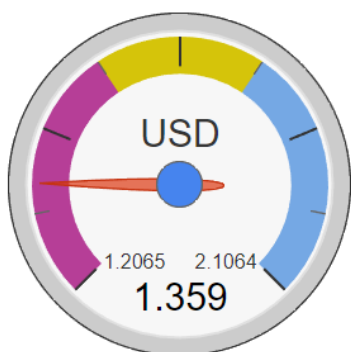
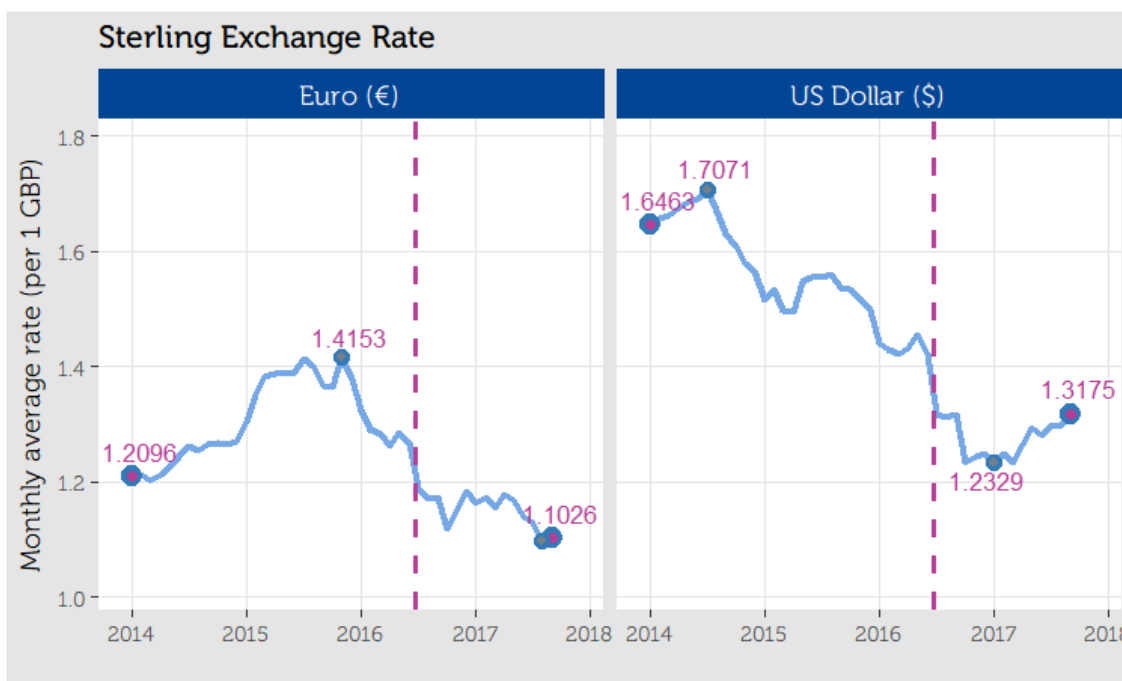
<b>BEAMA</b>	British Electrotechnical & Allied Manufacturers Association	<b>IOP</b>	Index of Production
<b>CESA</b>	Catering Equipment Suppliers Association	<b>IOS</b>	Index of Services
<b>CNY</b>	Chinese Yuan	<b>MAA</b>	Moving Annual Average
<b>CPI</b>	Consumer Price Index	<b>MAT</b>	Moving Annual Total
<b>CPIH</b>	Consumer Prices Index including owner occupiers' housing costs	<b>MTA</b>	The Manufacturing Technologies Association
<b>EAMA</b>	Engineering and Machinery Alliance	<b>NI</b>	Northern Ireland
<b>ECB</b>	European Central Bank	<b>NMI</b>	UK Electronic Systems & Technology Industry
<b>EUR</b>	Euro	<b>OECD</b>	Organisation for Economic Co-operation and Development
<b>G7</b>	Group of seven countries consisting of Canada, France, Germany, Italy, Japan, UK & US	<b>ONS</b>	Office for National Statistics
<b>GAMBICA</b>	Trade Association for Instrumentation, Control, Automation and Laboratory Technology	<b>PPI</b>	Producer Price Index
<b>GDP</b>	Gross Domestic Product	<b>REA</b>	The Renewable Energy Association
<b>HMRC</b>	HM Revenue & Customs	<b>RPI</b>	Retail Price Index
<b>IOM</b>	Index of Manufacturing	<b>SIC</b>	Standard Industry Classification
		<b>USD</b>	US Dollar
		<b>YOY%</b>	Year on Year or Annual Percentage change

# 1 Exchange Rates

The average Sterling exchange rate with **US Dollar** in the first 15 days of September 2017 increased by 1.7% from August 2017 average to 1.3175. Compared to twelve months earlier, the September 2017 average was 0.1% higher, but compared to May 2016 (pre-brexit vote) the rate was 9.4% lower. It is the first 12-month growth after 35 successive declines.

The average exchange rate for the **Euro** in September 2017 grew by 0.5% from August 2017 average to 1.1026. Compare to twelve months earlier the average rate was 6.0% lower, and 14.3% lower compared to May 2016.

At the end of 2017 week 37, the **US Dollar** was trading at \$ 1.3558/GBP, **Euro** at € 1.1356/GBP and the **Chinese Yuan** at ¥8.8933/GBP.

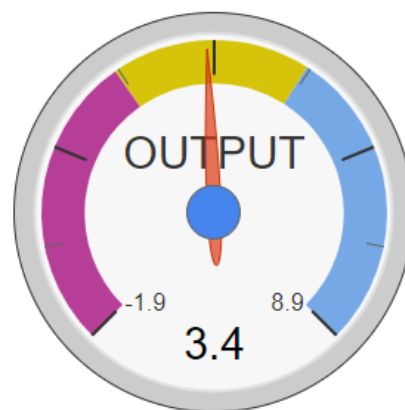
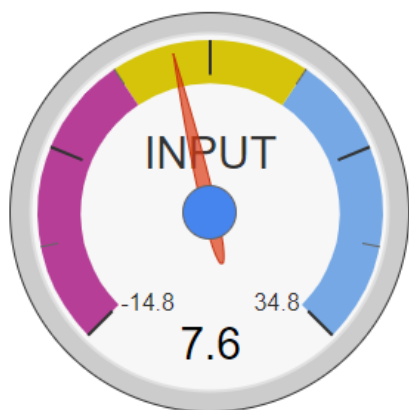
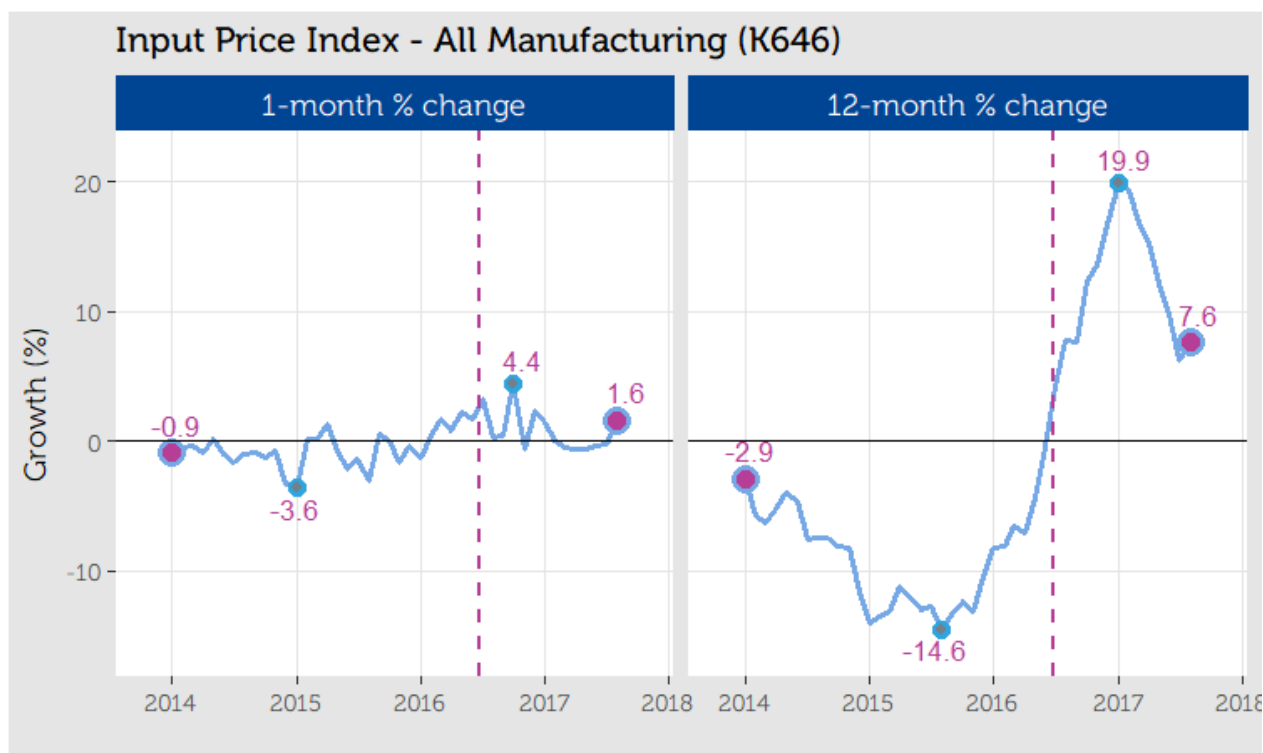


[Gauge charts: Daily exchange rates since January 1999]

## 2 Producer Prices

The **input price** index for all manufacturing grew by 1.6% between July and August 2017 and also grew by 7.6% compared to August 2016. The main contributors were crude oil and imported metals. It is the 14th successive year on year growth but the highest 1-month growth since December 2016.

**Factory gate** (Output) prices for all manufacturing rose by 0.4% between July and August 2017 and also by 3.4% compared to August 2016.

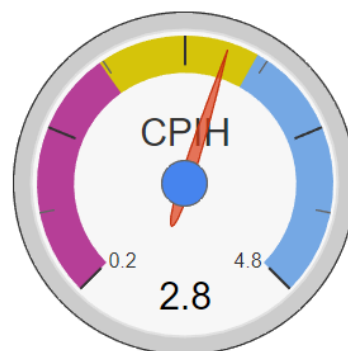
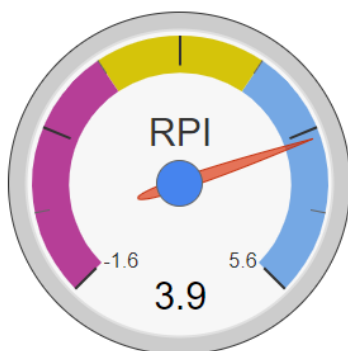
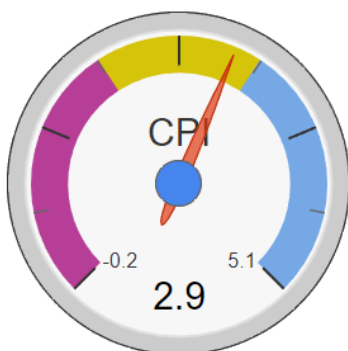
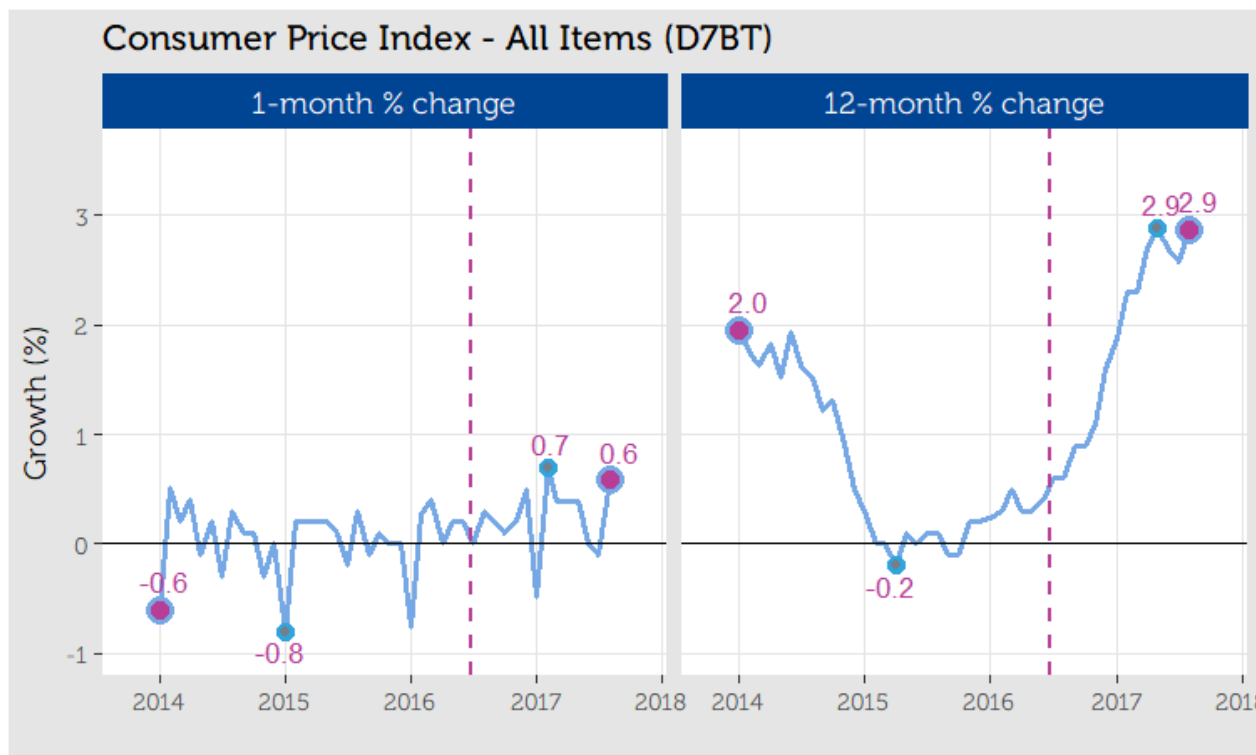


[Gauge Charts: 12-month % change since Jan 2000, INPUT = Input price, OUPUT=Factory gate prices ]

### 3 Consumer Prices

**Consumer price index** fell by 0.6% between July and August 2017, and the 12-month growth reached at 2.9%. Rising prices for clothing and motor fuels were the main contributors to the increase in the rate between July and August 2017. It is the 22nd successive year on year growth.

The **retail price index** grew by 0.7% between July and August 2017, and by 3.9% compare to a year earlier. It is the 94th successive year on year growth.



[Gauge Charts: 12-month % change since Jan 2000; CPIH data starts from Jan 2005 ]

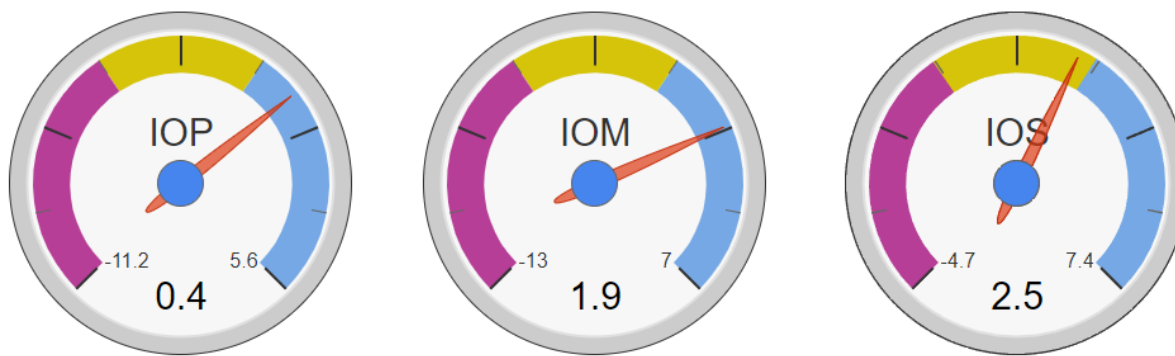
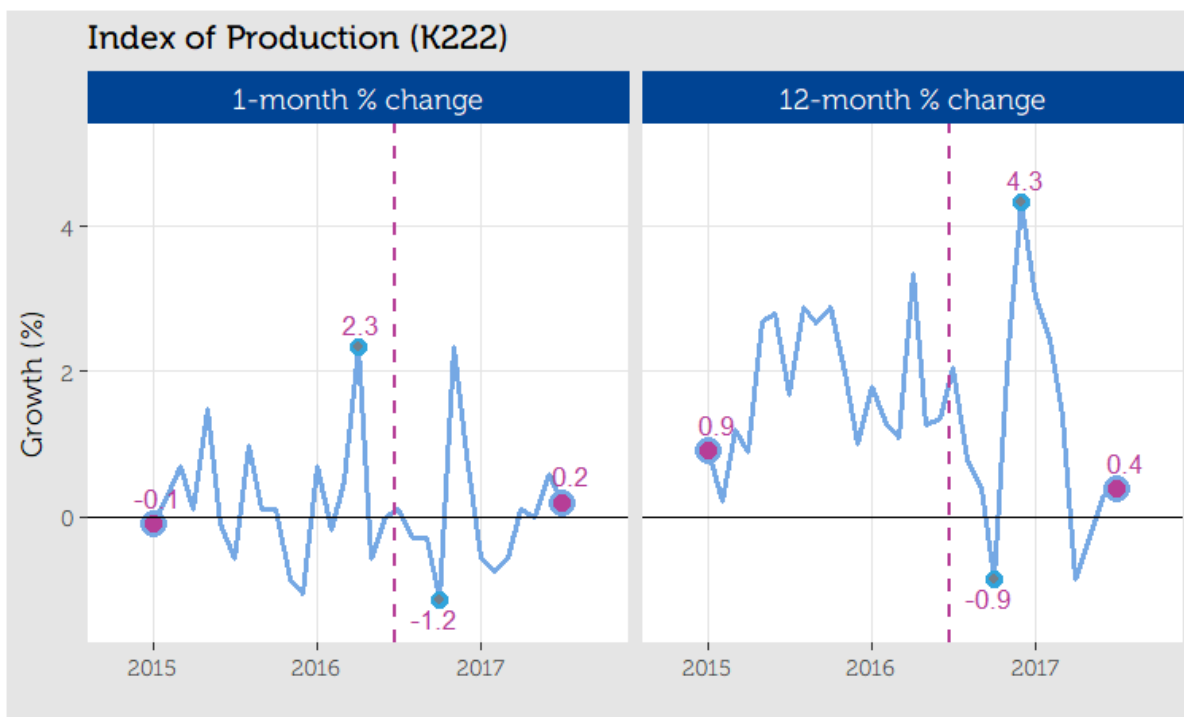


## 4 Production

**Index of production (IOP)**, the production output at constant prices, grew by 0.2% in July 2017 compared to June 2017. Compared to July 2016, production also grew by 0.4%. It is the second successive year on year growth.

**Index of manufacturing (IOM)** grew by 0.6% in July 2017, the fastest 1-month growth since December 2016. Manufacturing also grew by 1.9% compared to twelve months earlier.

**Index of services (IOS)** grew by 0.5% between May and June 2017 and also grew by 2.5% compared to June 2016. It is the 89th consecutive annual growth.

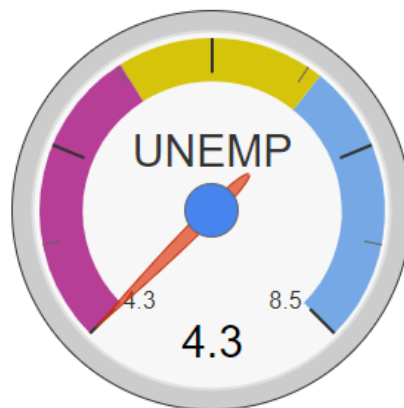
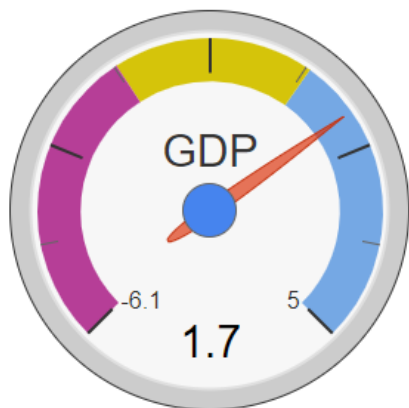
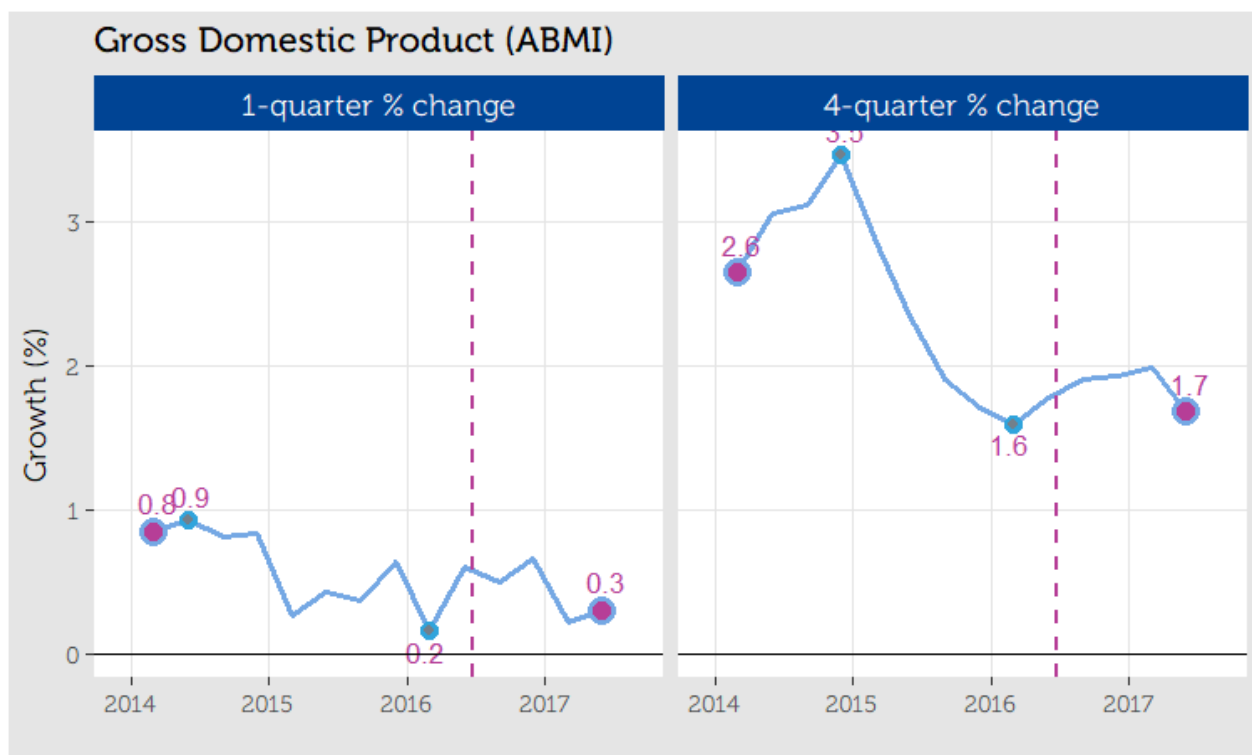


[Gauge Charts: 12-month % change since Jan 2000 ]

## 5 GDP & Unemployment

The preliminary estimate of UK **gross domestic product** (GDP) growth, for 2017 Q2, was 0.3%. It was equivalent to £472,939 million and a growth of 1.7% compared to 2016 Q2. The service sector grew, but both production and construction sectors declined. The main contributors in the service sector were retail trade, distribution and film production.

The number of people in work increased by 181,000 in the three months to July 2017 to 32.14 million. **Unemployment** rate dropped to 4.3%, the lowest since May 1975.

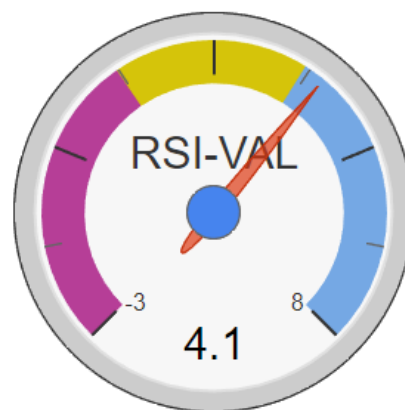
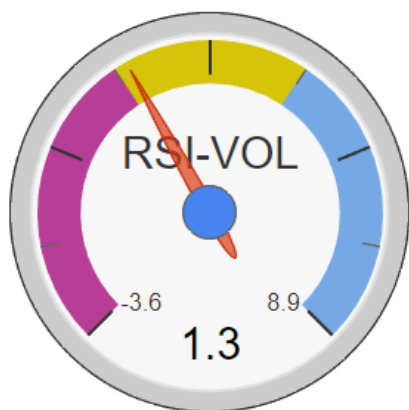
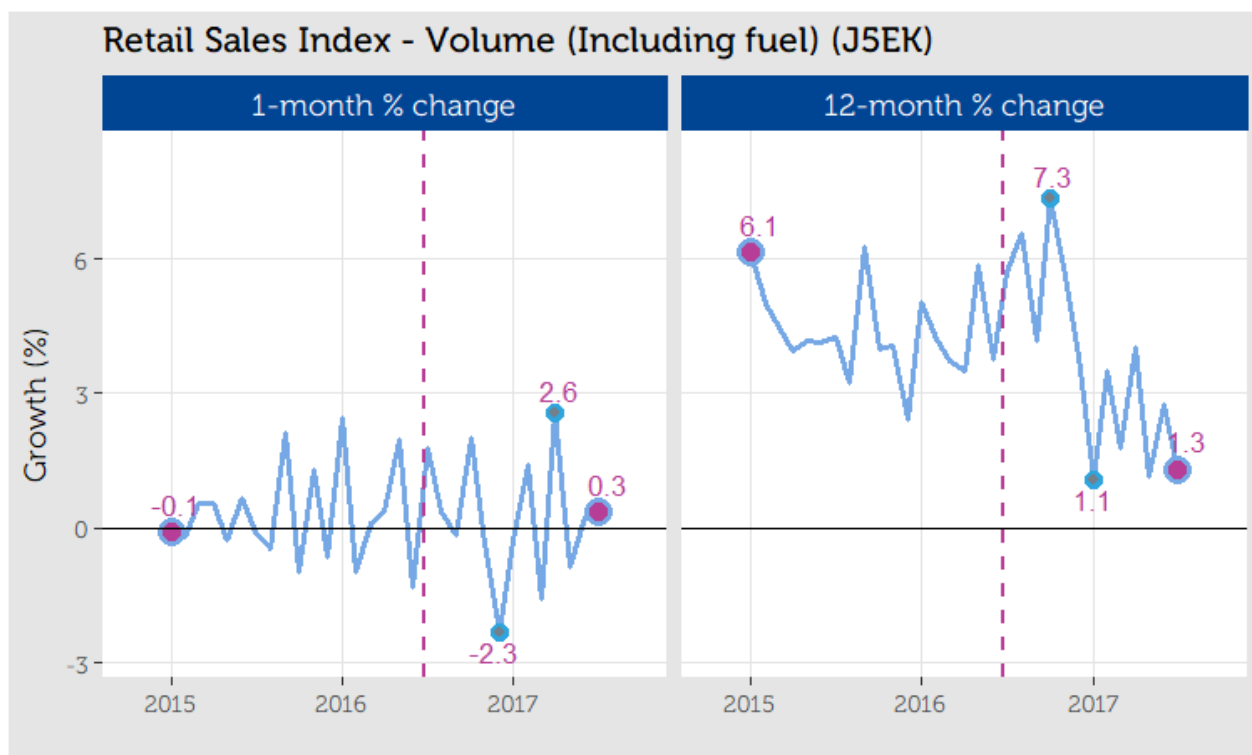


[Gauge Charts: GDP = 4-quarter % change since Jan 2000, UNEMP = Unemployment rate since 2000 ]

## 6 Retail Sales

The **volume of retail sales** (including fuel) grew by 0.3% between June and July 2017, and also grew by 1.3% compared to twelve months earlier. It is the 51st successive year on year growth.

The **value of retail sales** (including fuel) grew by 0.7% between June and July 2017. Compare to a year earlier, retail sales value grew by 4.1%. It is the 19th successive year on year growth.

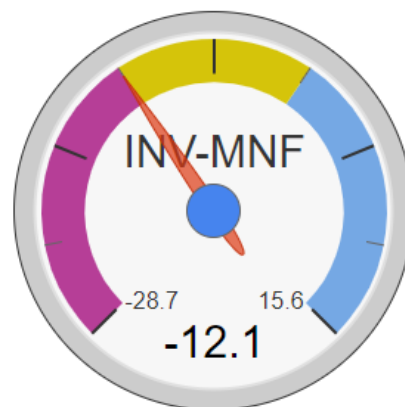
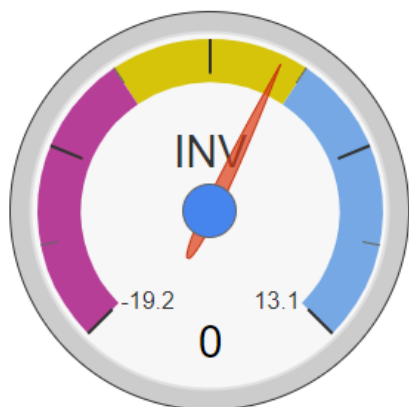
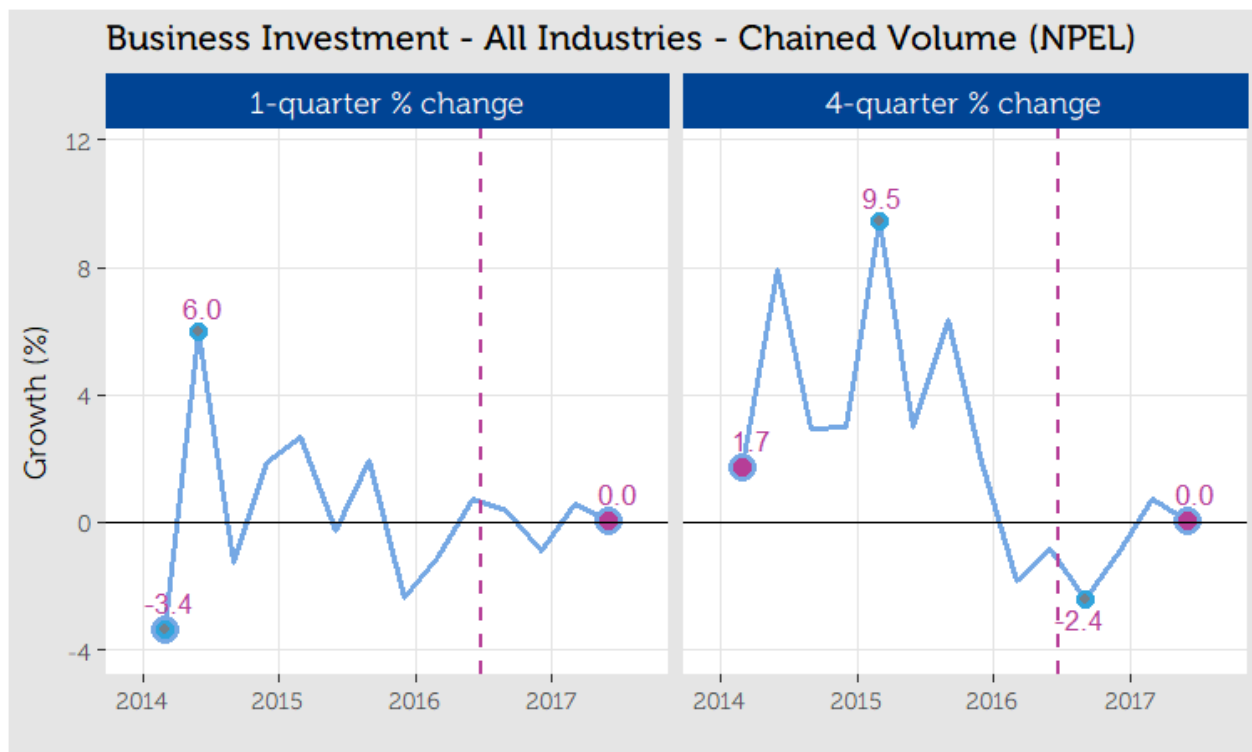


[Gauge Charts: 12-month % change since Jan 2000]

## 7 Business Investment

**Business investment** for all industries (INV), in volume terms, grounded to halt in 2017 Q2, with no growth on the previous quarter and also compared to a year earlier.

Investment in **manufacturing industries** (INV-MNF), in volume terms, decreased by 1.8% in 2017 Q2 and also fell by 12.1% compared to 2016 Q2. It is the highest 1-year (or 4-quarter) fall since 2009 Q4 and the 8th successive year on year decline.

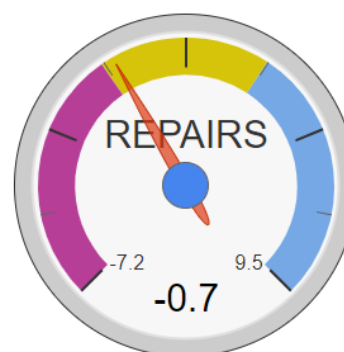
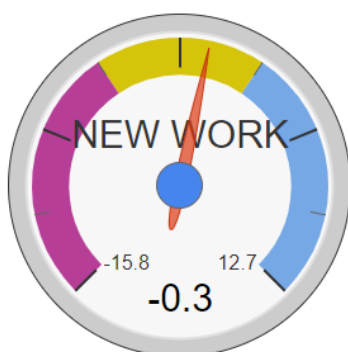
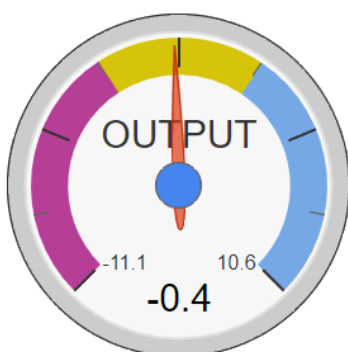
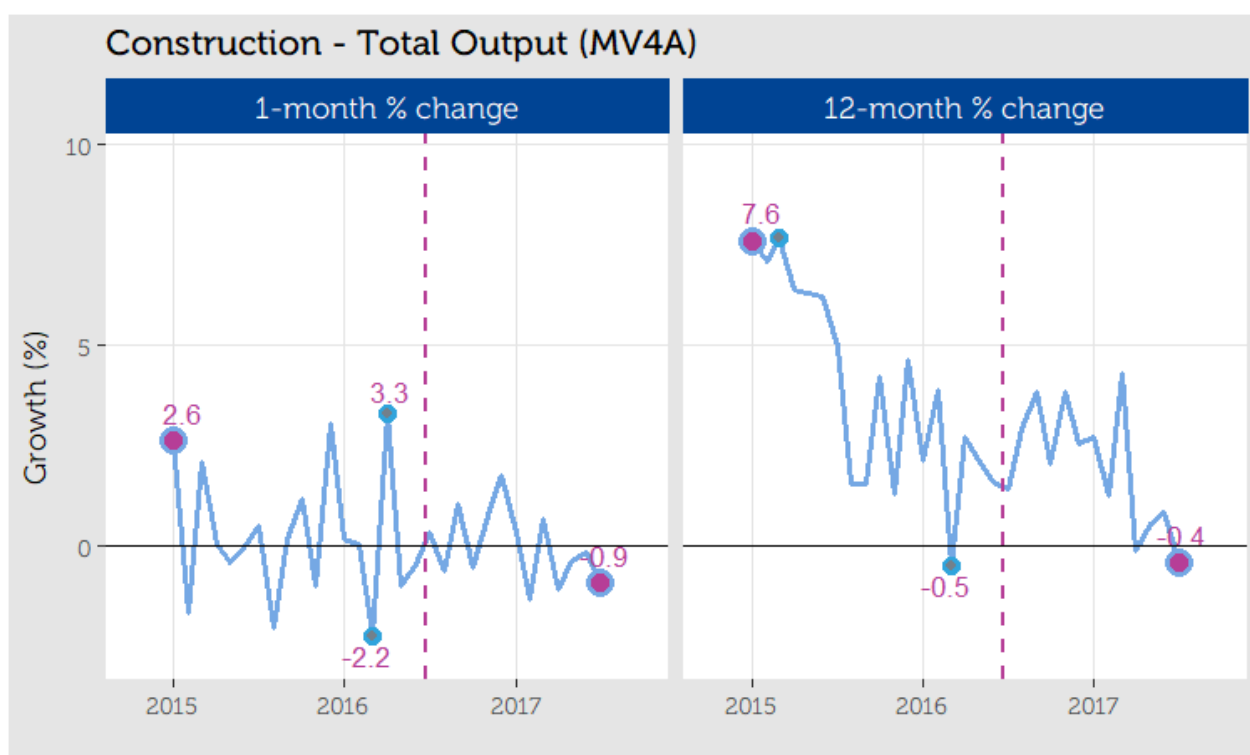


[Gauge Charts: 4-quarter % change since 2007 ]

## 8 Construction

Total **construction output**, at constant prices, fell by 0.9% in July 2017 to £11.4 billion, compared to June 2017. Compared to twelve months earlier, output in July 2017 also fell by 0.4%; the highest 12-month fall since March 2016.

**New construction** work, fell by 1.4% to £7.4 billion in the month of July 2017 but **construction repairs** improved slightly by 0.1% to £4.0 billion in the same period. Compared to twelve months earlier, new construction work in July 2017 fell by 0.3% and repairs also fell by 0.7%.



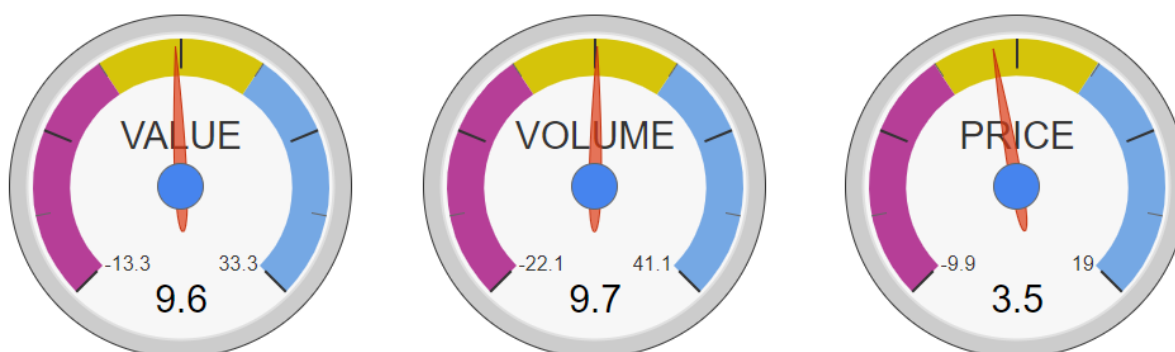
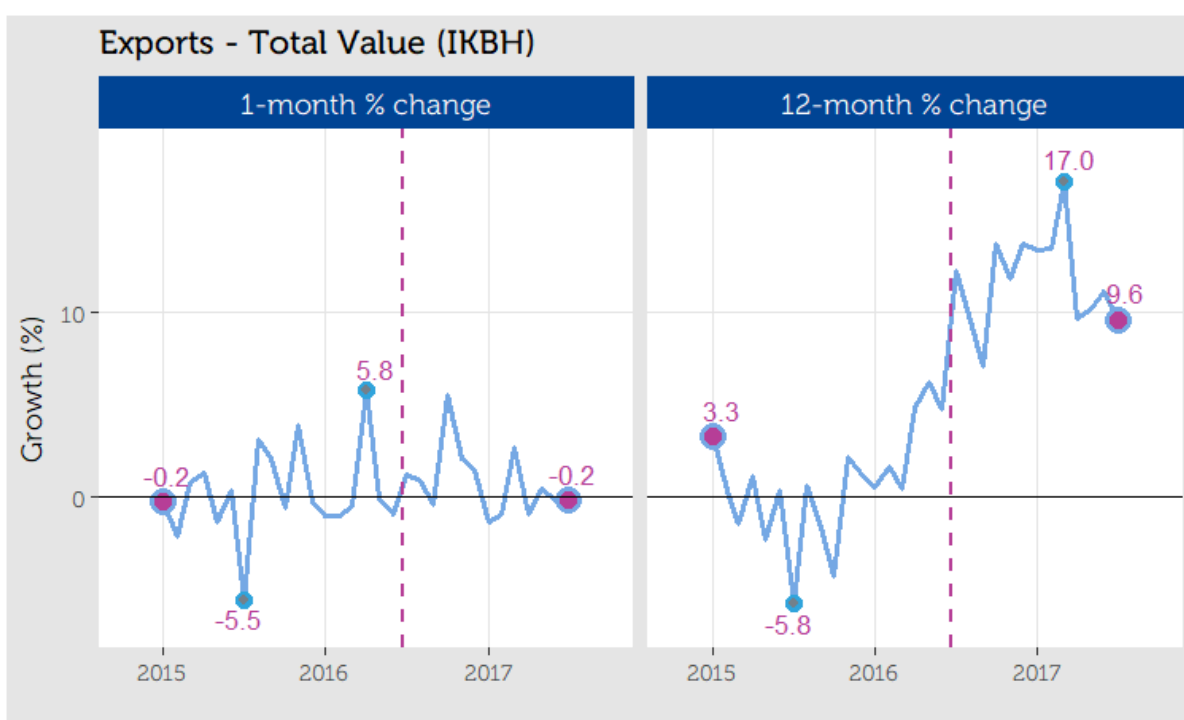
[Gauge Charts: 12-month % change since Jan 2010, OUTPUT = Total Construction Output, NEW WORK = Total Construction New Work, REPAIRS = Total Repairs, Maintenance and Infrastructure]

## 9 UK Trade

### 9.1 Exports

The **value** of UK **exports** fell by 0.2% between June and July 2017 but grew by 9.6% compared to July 2016. Exports of **goods** increased by 12.8% to £ 28.0 billion and exports of **services** increased by 5.7% to £ 21.6 billion in July 2017 compared to twelve months earlier.

**Volume** of UK **exports** increased by 1.4% in July 2017 compared a month earlier and also increased by 9.7% compared to twelve months earlier. It is the 9th successive year on year growth.

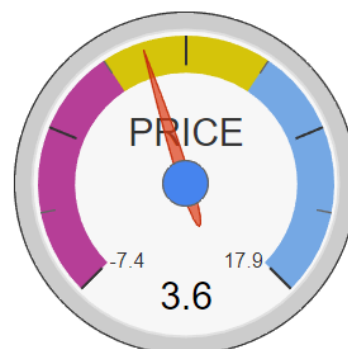
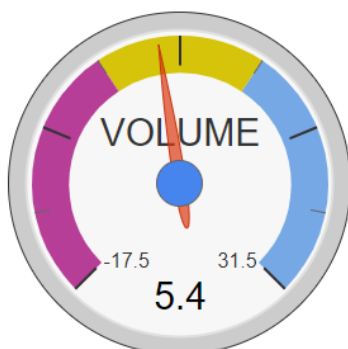
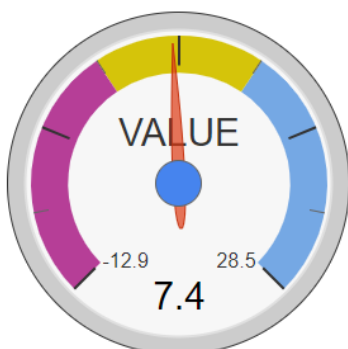
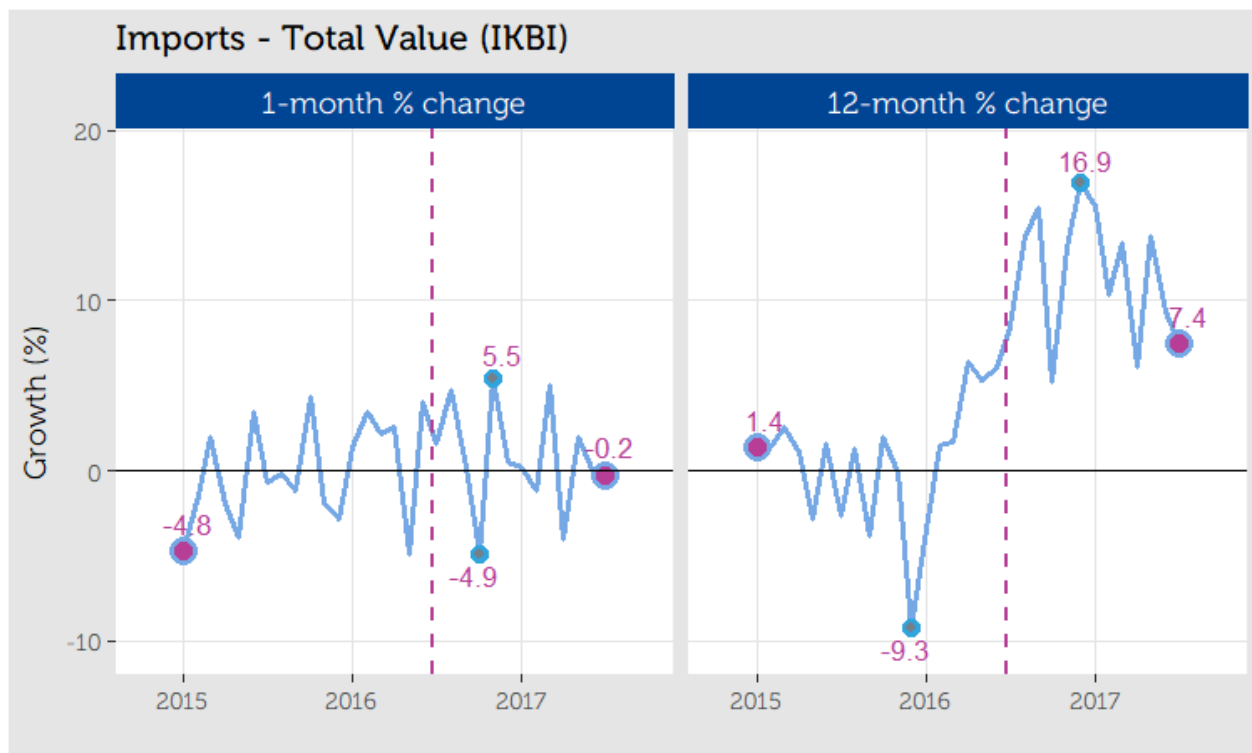


[Gauge Charts: 12-month % change since Jan 2000, VALUE = Total Export Value, VOLUME = Export Volume Index, PRICE = Export Price Index]

## 9.2 Imports

The **value** of UK imports fell by 0.2% between June and July 2017. The value of imports in June 2017 was equivalent to £52.5 billion and a growth of by 7.4% compared twelve months earlier. It is the 18th successive annual growth.

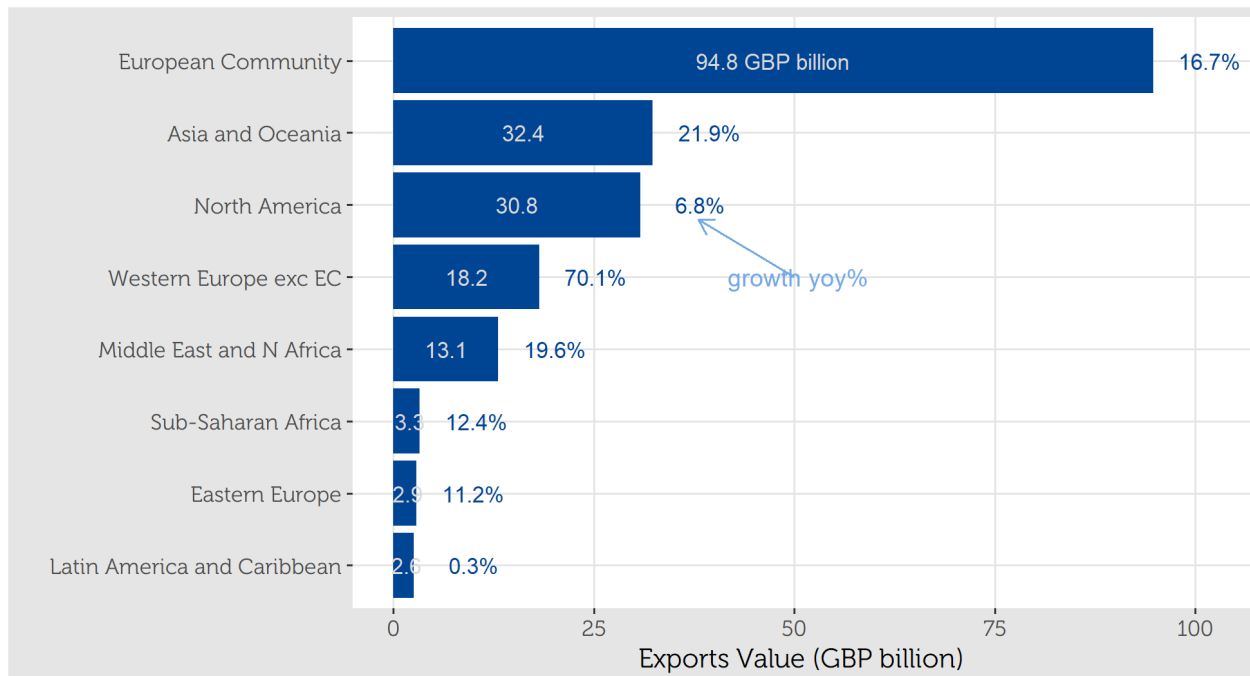
UK imports on **volume** basis fell by 0.2% in July compared with June 2017 but grew by 5.4% compared to twelve months earlier. It is the 3rd successive year on year growth.



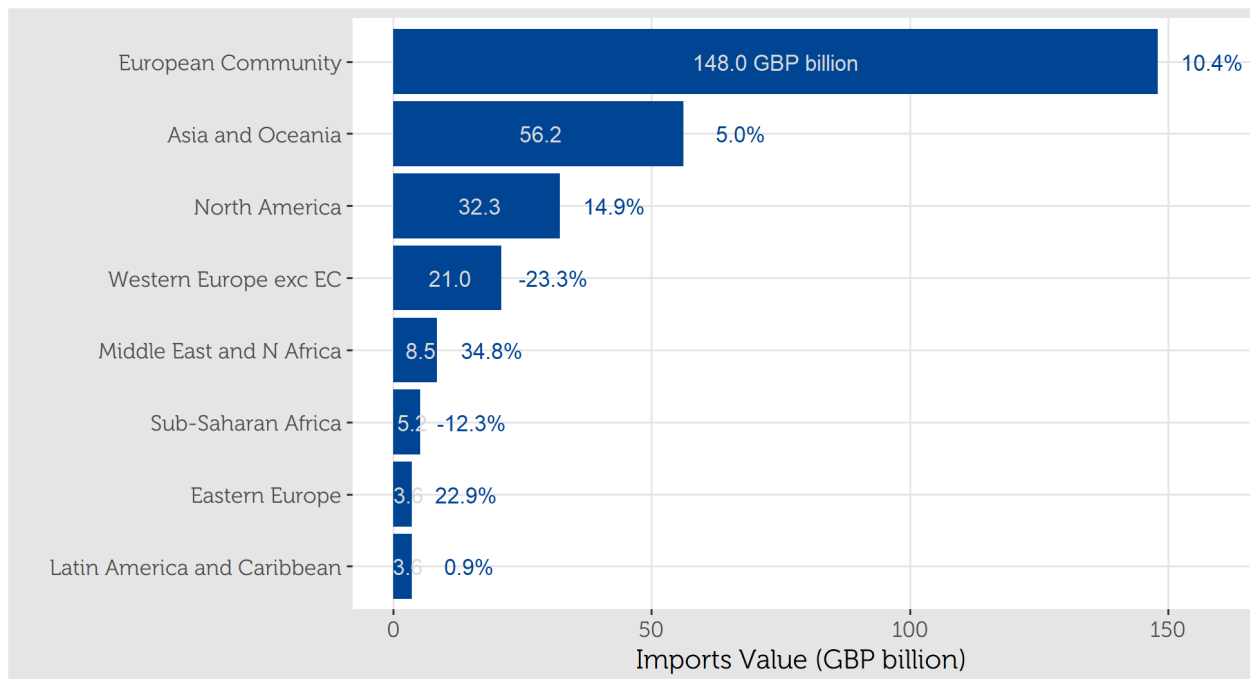
[Gauge Charts: 12-month % change since Jan 2000, VALUE = Total Import Value, VOLUME = Import Volume Index, PRICE = Import Price Index]

### 9.3 Goods Trade: Ranking by Region

#### 9.3.1 Exports - 2017 (Jan - Jul)



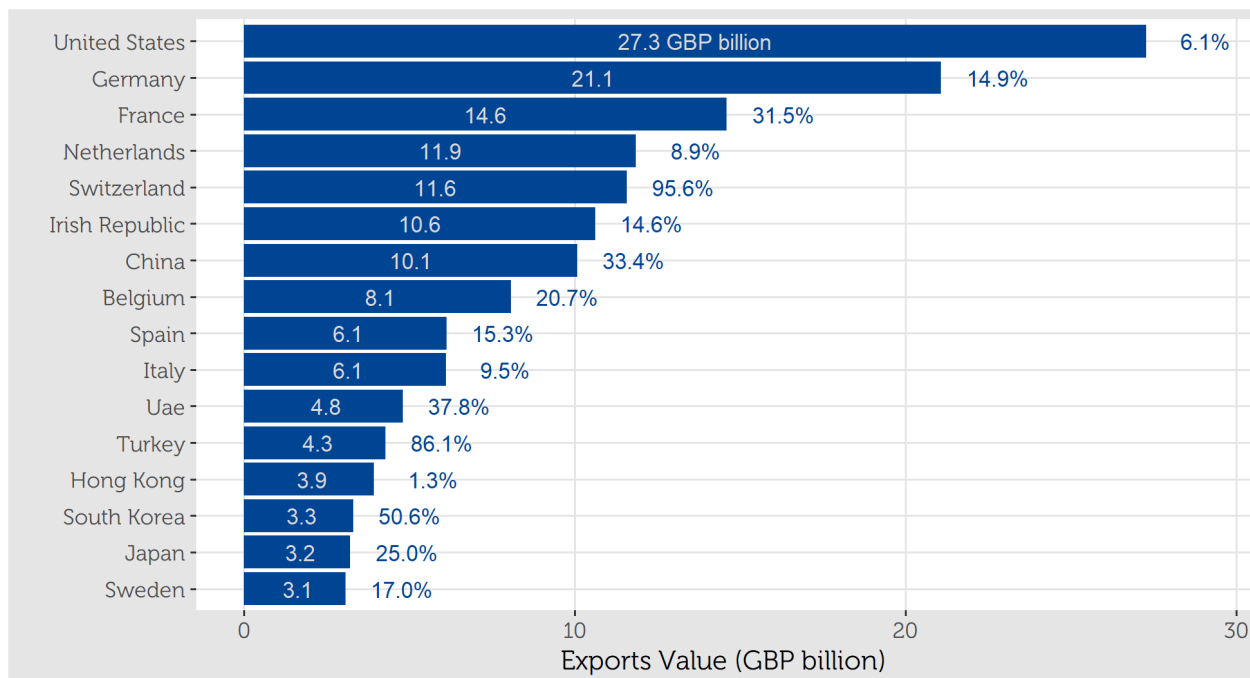
#### 9.3.2 Imports - 2017 (Jan - Jul)



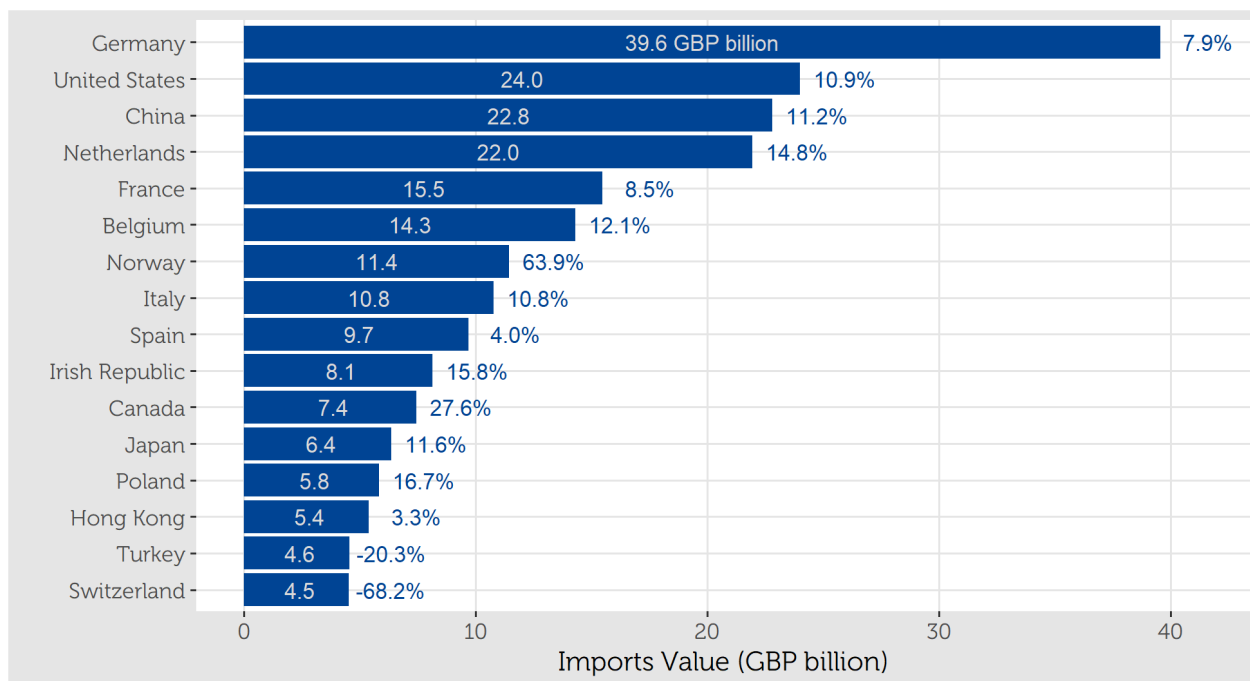


## 9.4 Goods Trade: Ranking by Country - Top 16

### 9.4.1 Exports - 2017 (Jan - Jul)

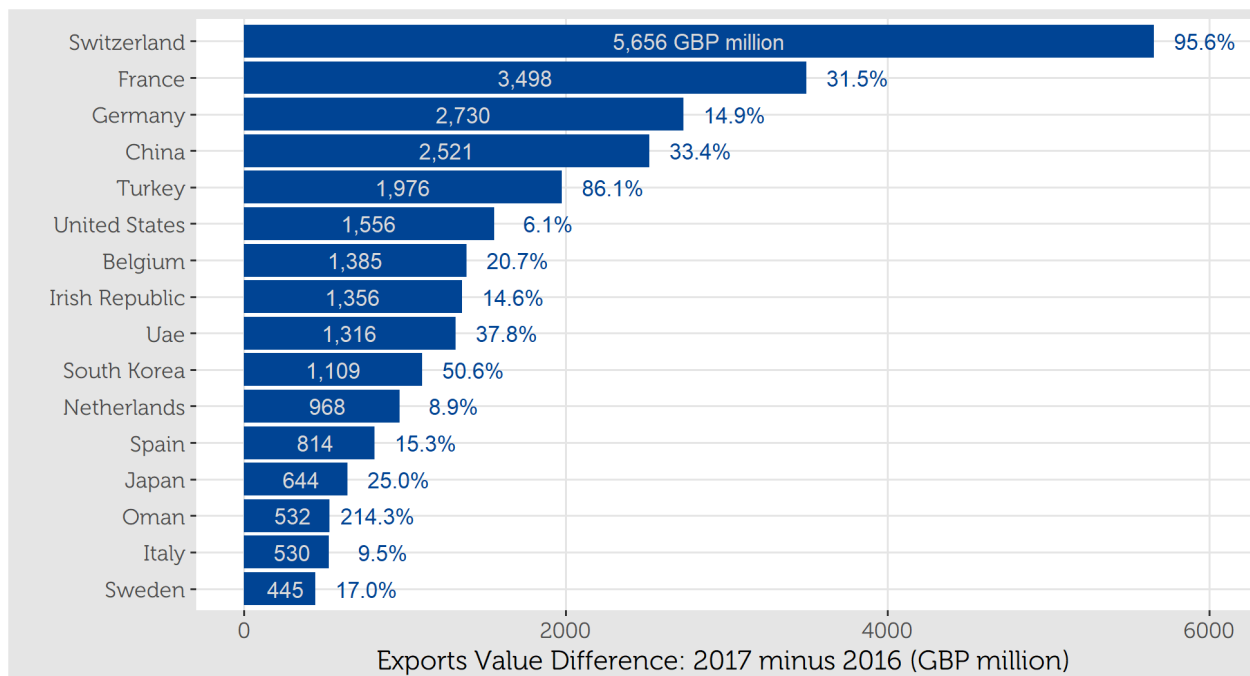


### 9.4.2 Imports - 2017 (Jan - Jul)

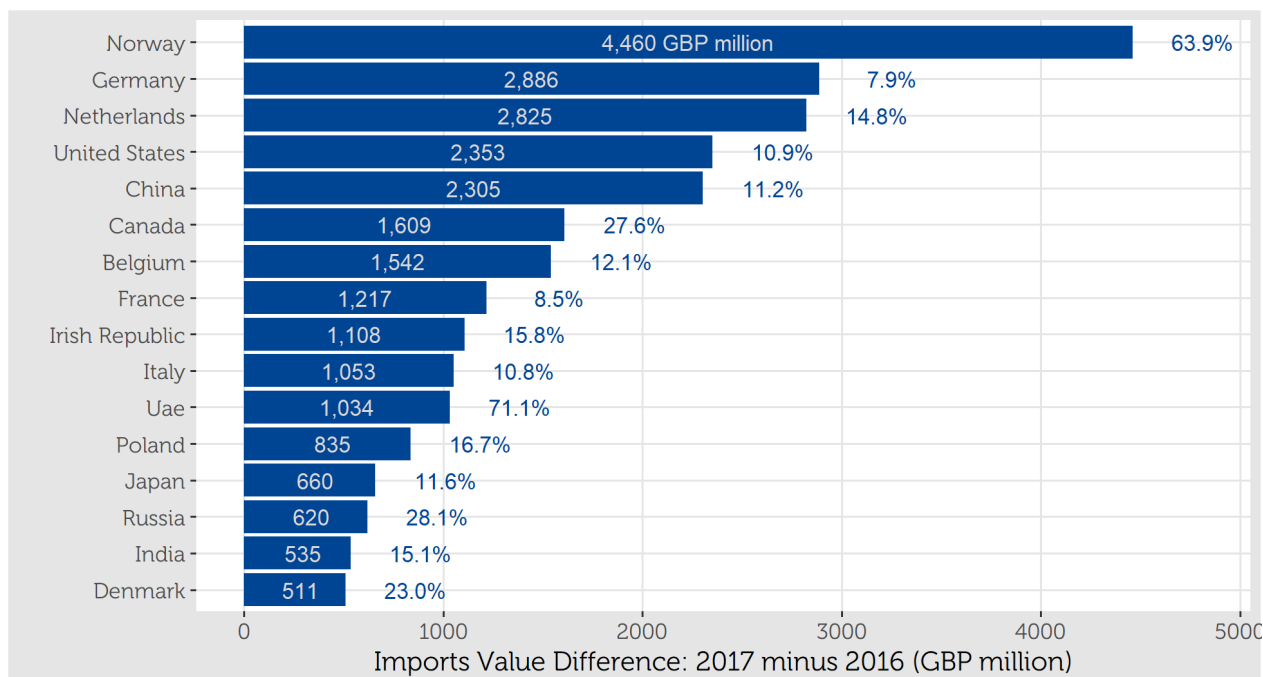


## 9.5 Goods Trade: Growth Ranking by Country - Top 16

### 9.5.1 Exports Value Growth - 2017 (Jan - Jul)

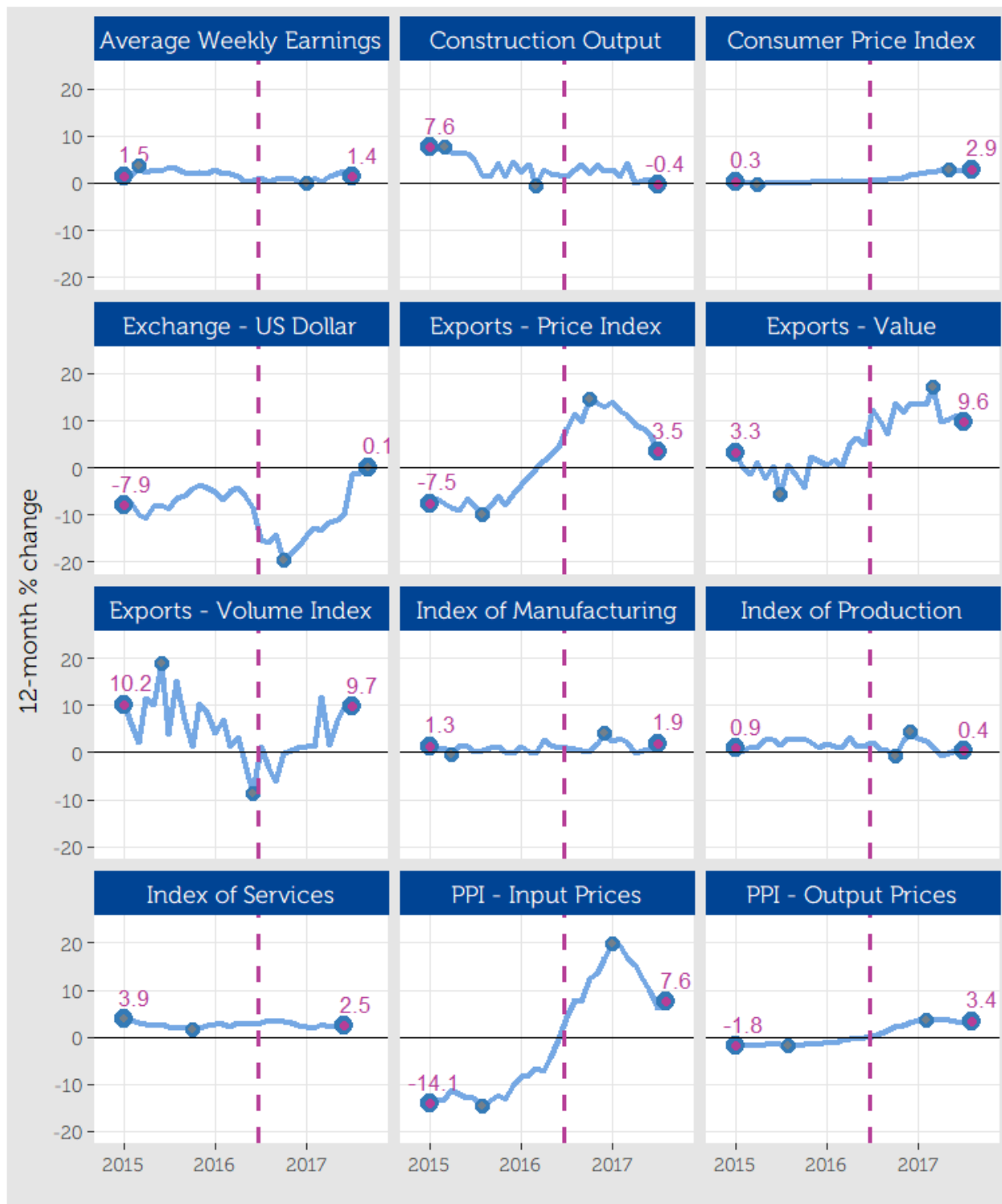


### 9.5.2 Imports Value Growth - 2017 (Jan - Jul)

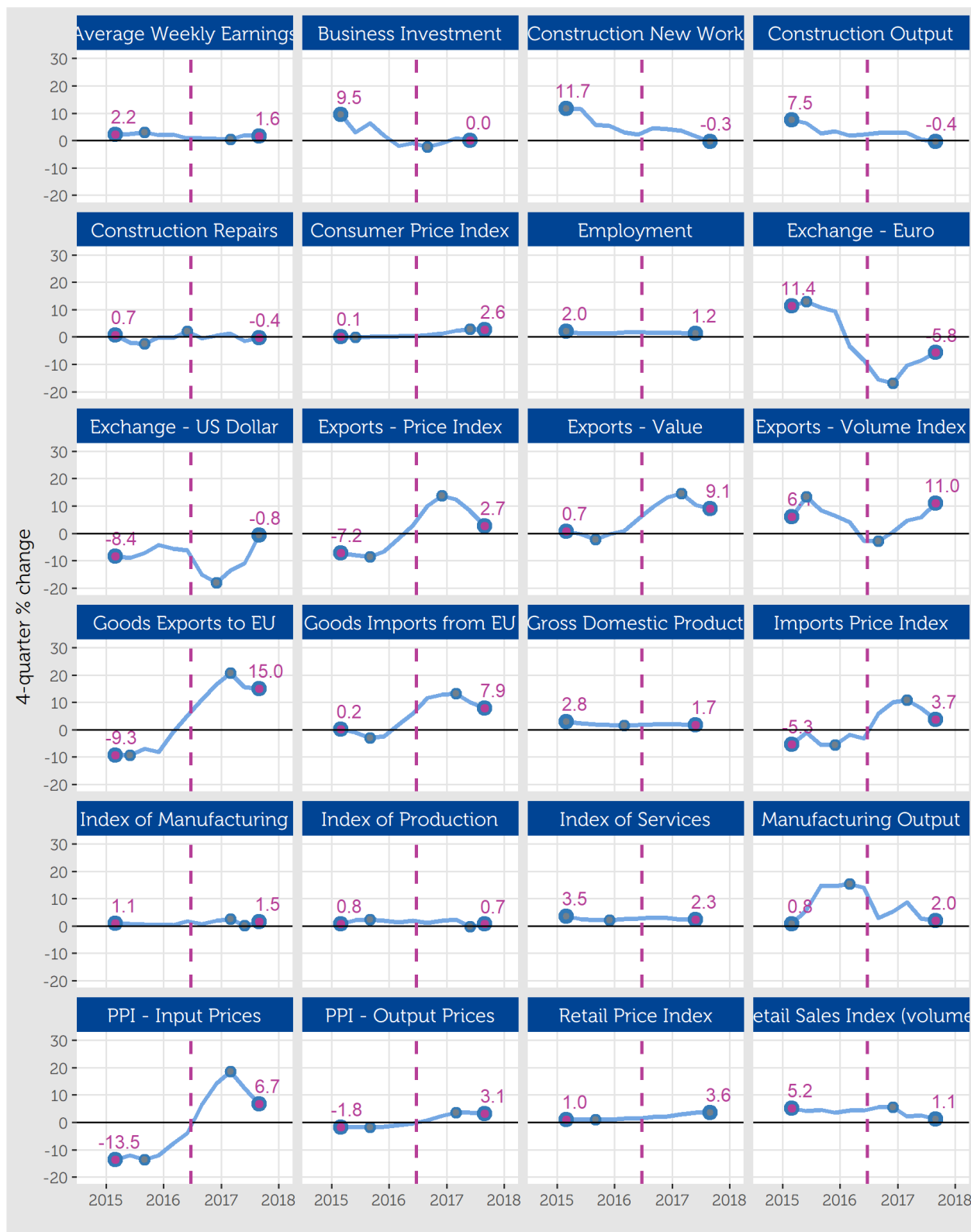


## 10 Economy At a Glance

### 10.1 Growth: 12-month % growth

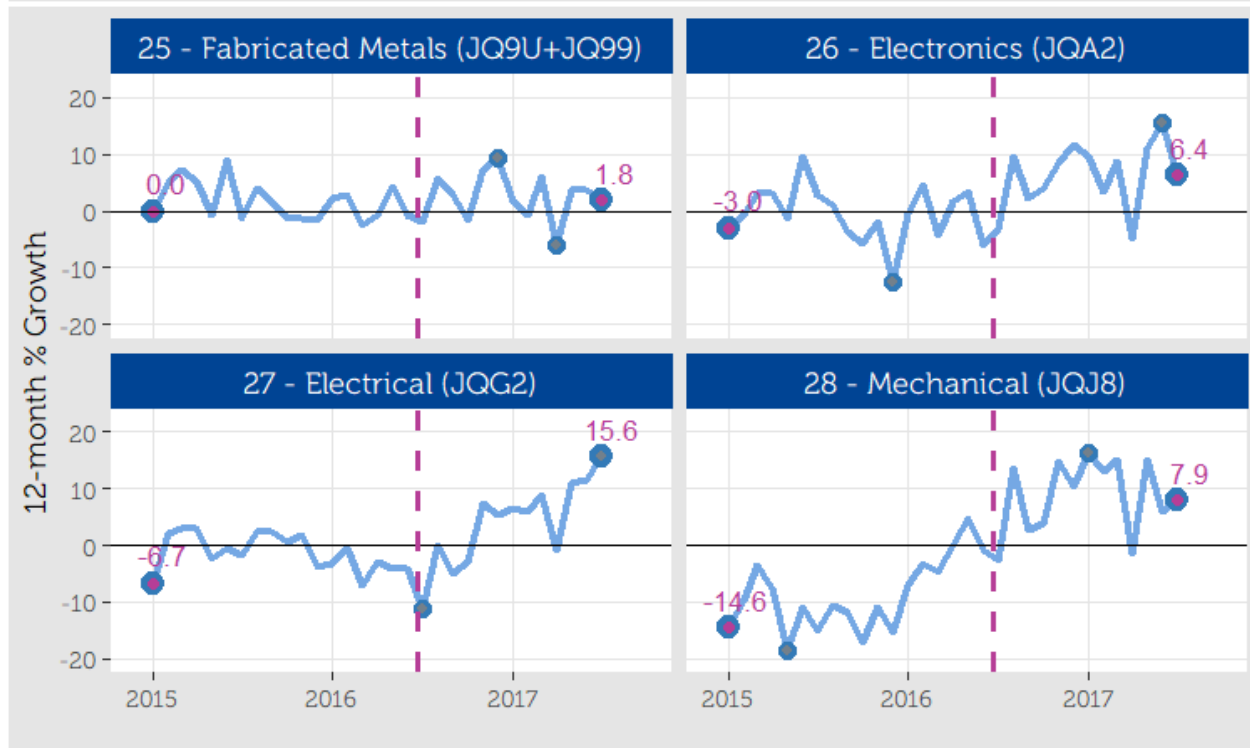
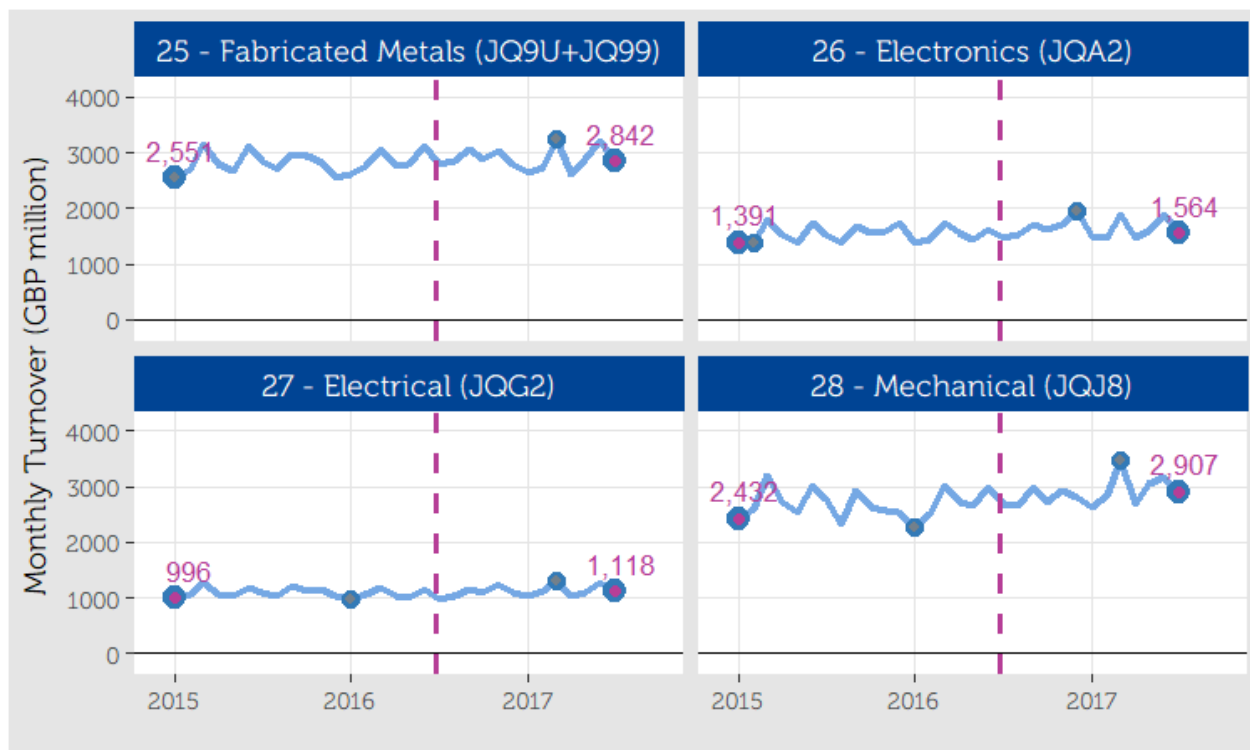


## 10.2 Growth: 4-quarter % growth

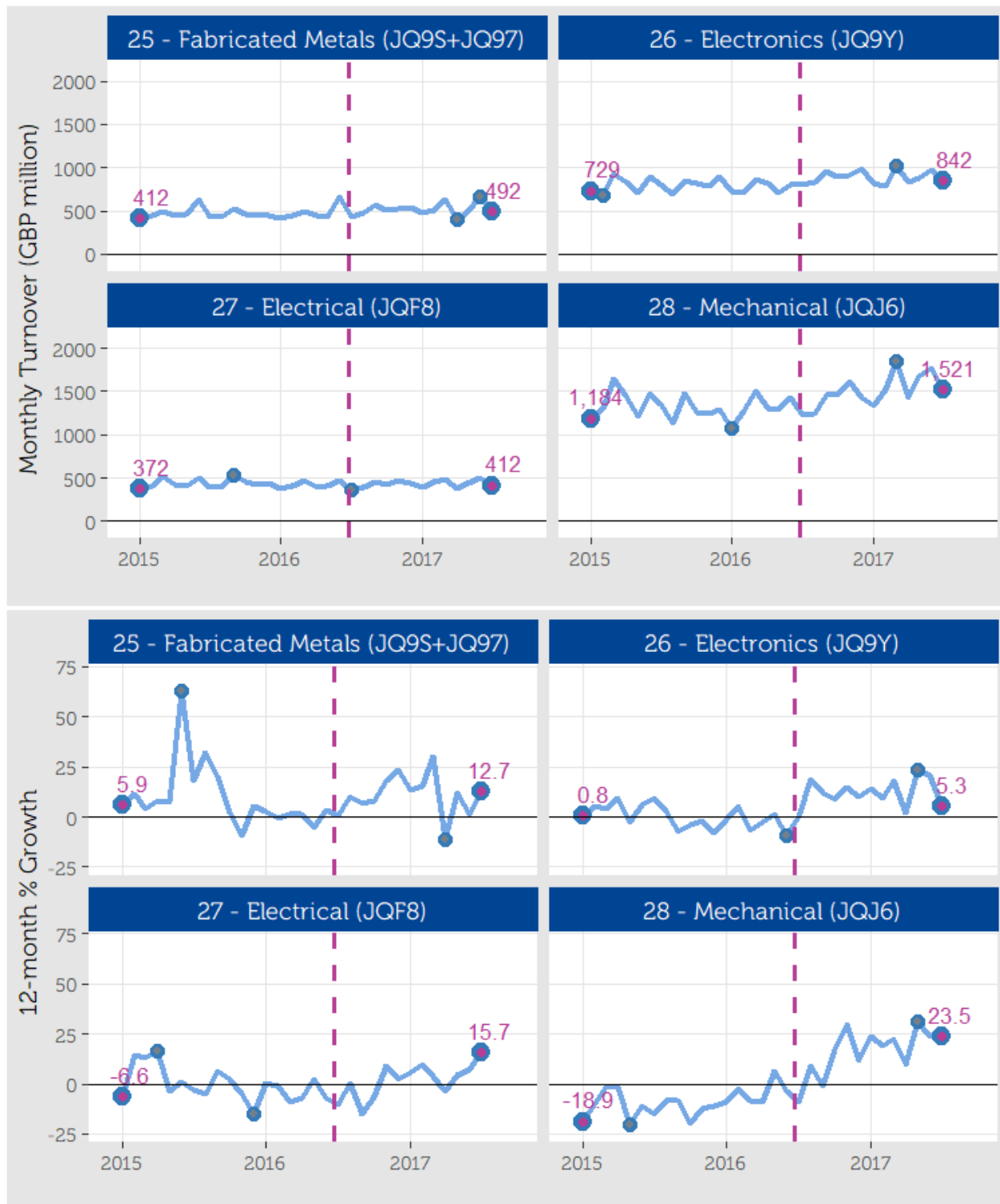


# 11 Industry Level Indicators

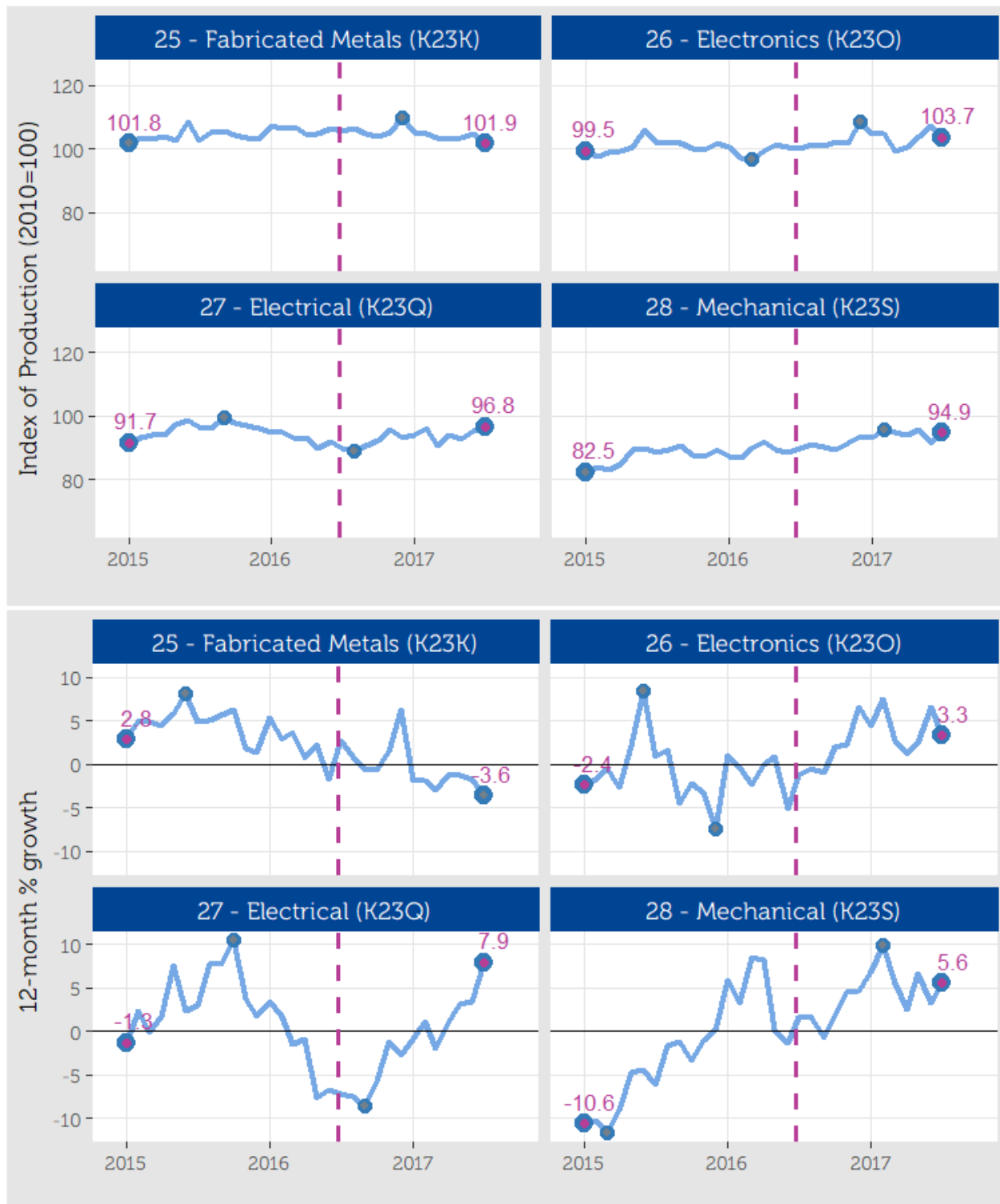
## 11.1 Turnover



## 11.2 Exports



### 11.3 Index of Production



### 11.4 Employment (including Self-Employment)





## 12 Growth Cycles

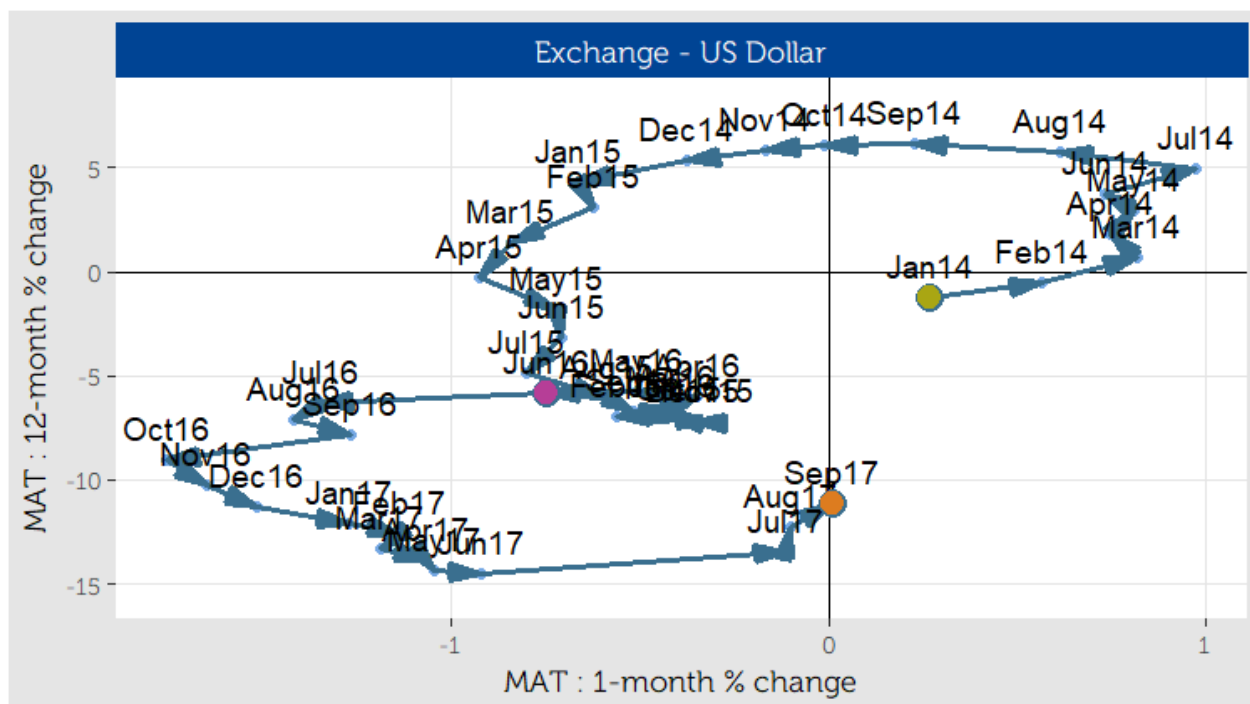
### 12.1 About Growth Cycles

Growth cycle, plots the annual growth of an indicator against the 1-month ( or 1-quarter) growth. This put the indicator in one of 4 main quadrants:

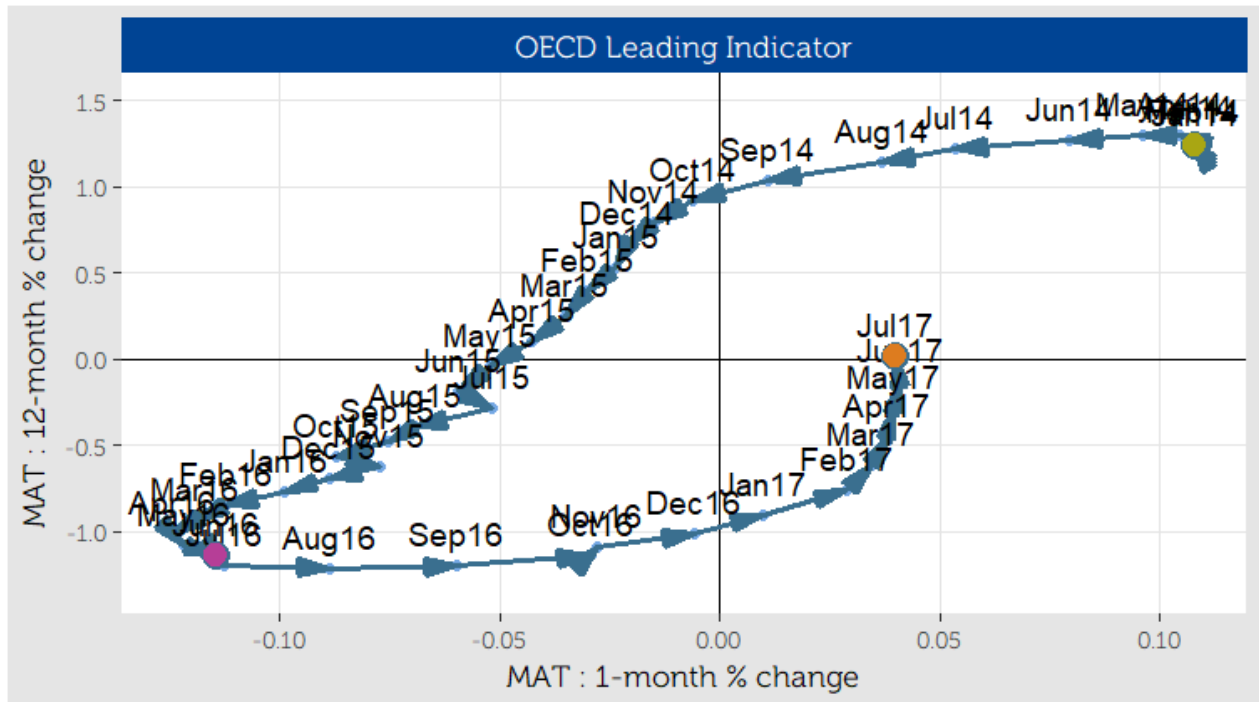
- Quadrant 1: increased compared to previous month (or quarter) and also increased compared previous year - **expansion**
- Quadrant 2: increased compared to previous month (or quarter) but decreased compared to previous year - **recovery**
- Quadrant 3: decreased compared to previous month (or quarter) and also decreased compared to previous year - **contraction**
- Quadrant 4: decreased compared to previous month (or quarter) but increased compared previous year - **slowing down**

Where an indicator is heading to is found by connecting indicator's position over a period of time. Using Moving Annual Total (MAT) helps to remove seasonal effect inherent in most indicators. This section show Growth Cycle plots of 6 selected indicators. The starting point is marked with green circle (●); purple circle (●) for referendum date and orange circle (●) for the current state.

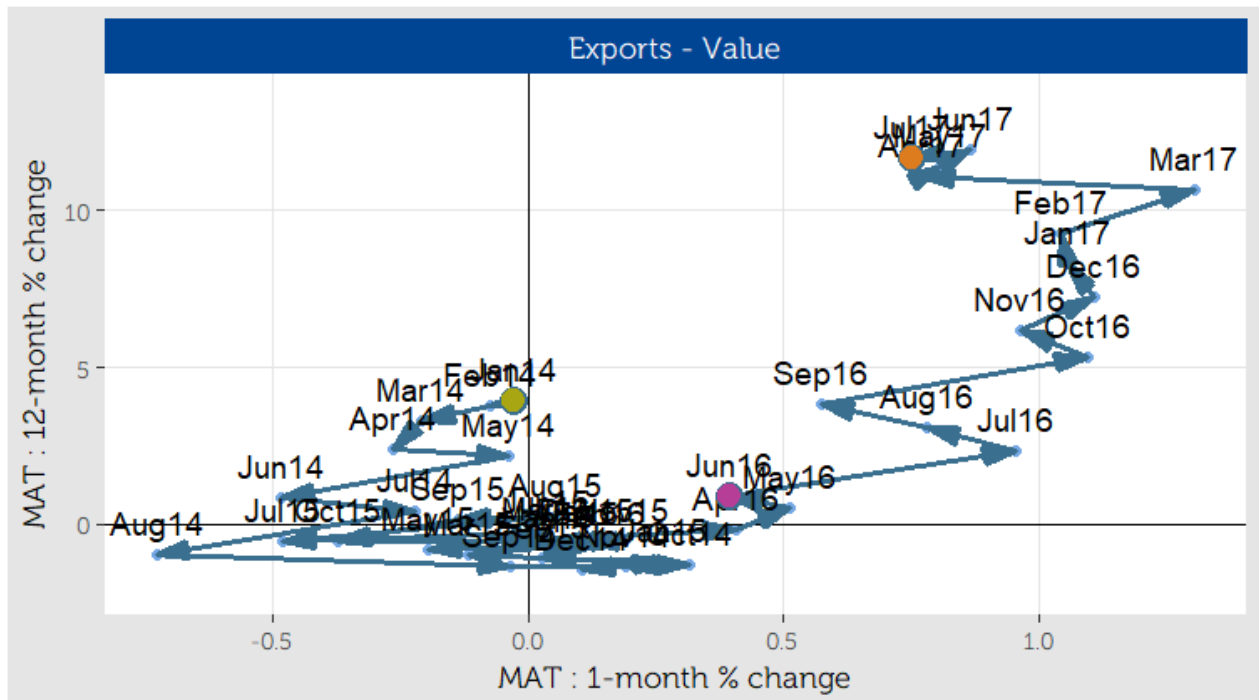
### 12.2 Exchange Rate (USD)



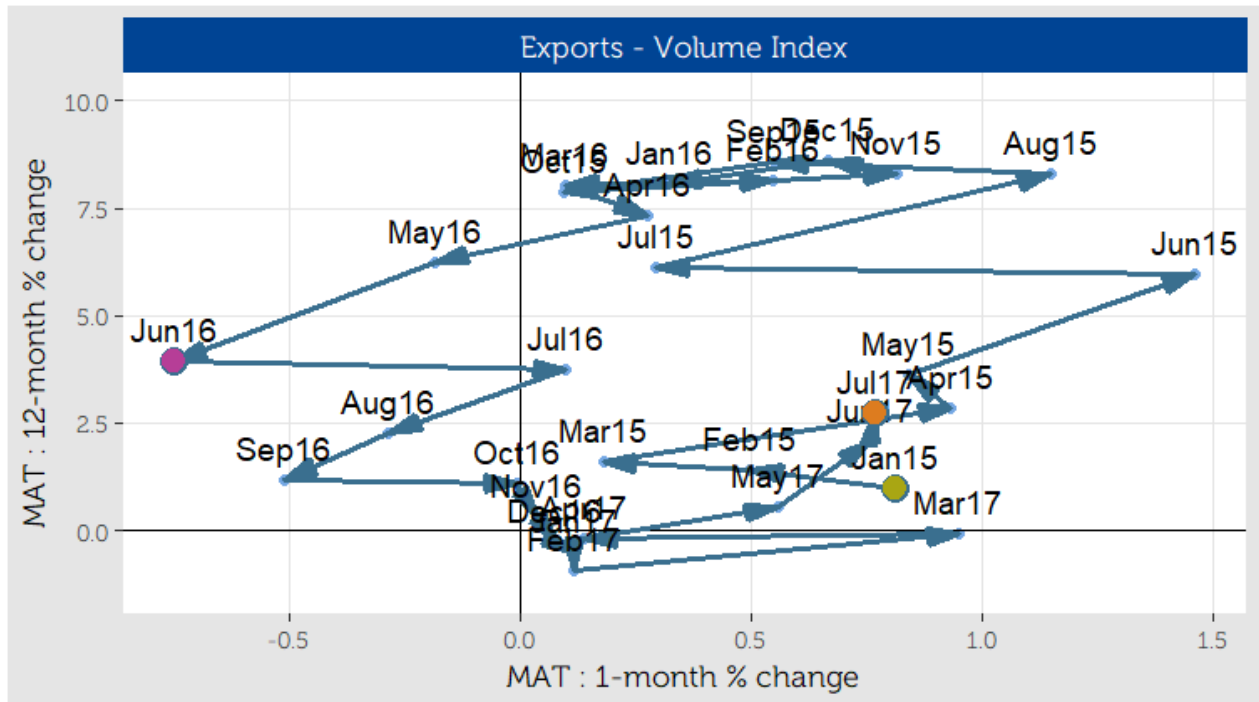
### 12.3 OECD Composite Leading Indicator - UK



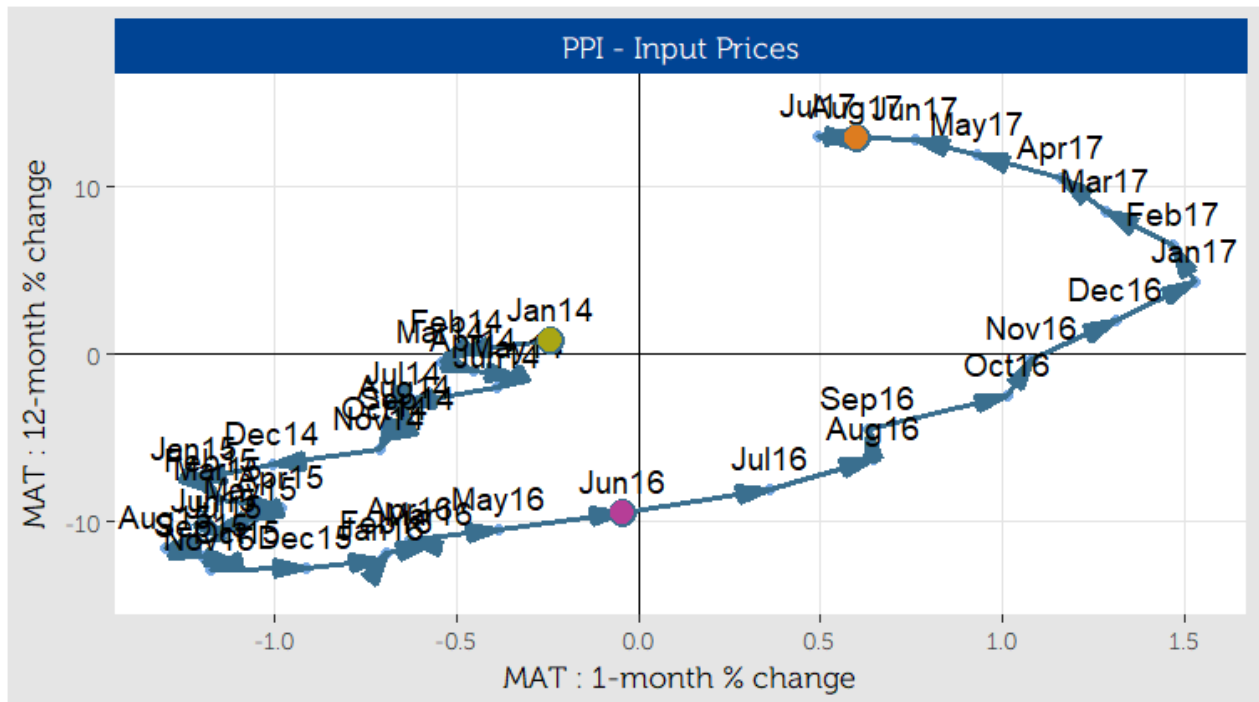
### 12.4 Exports - Value (IKBH)



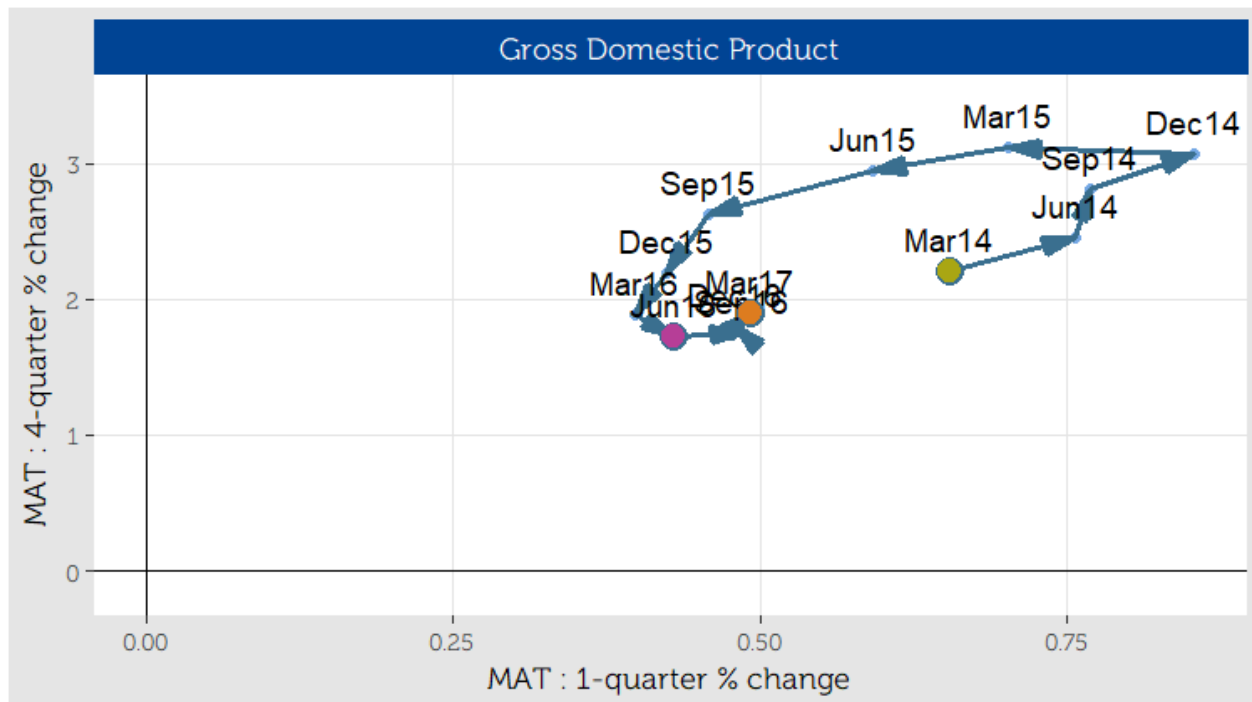
### 12.5 Exports - Volume Index (BQKU)



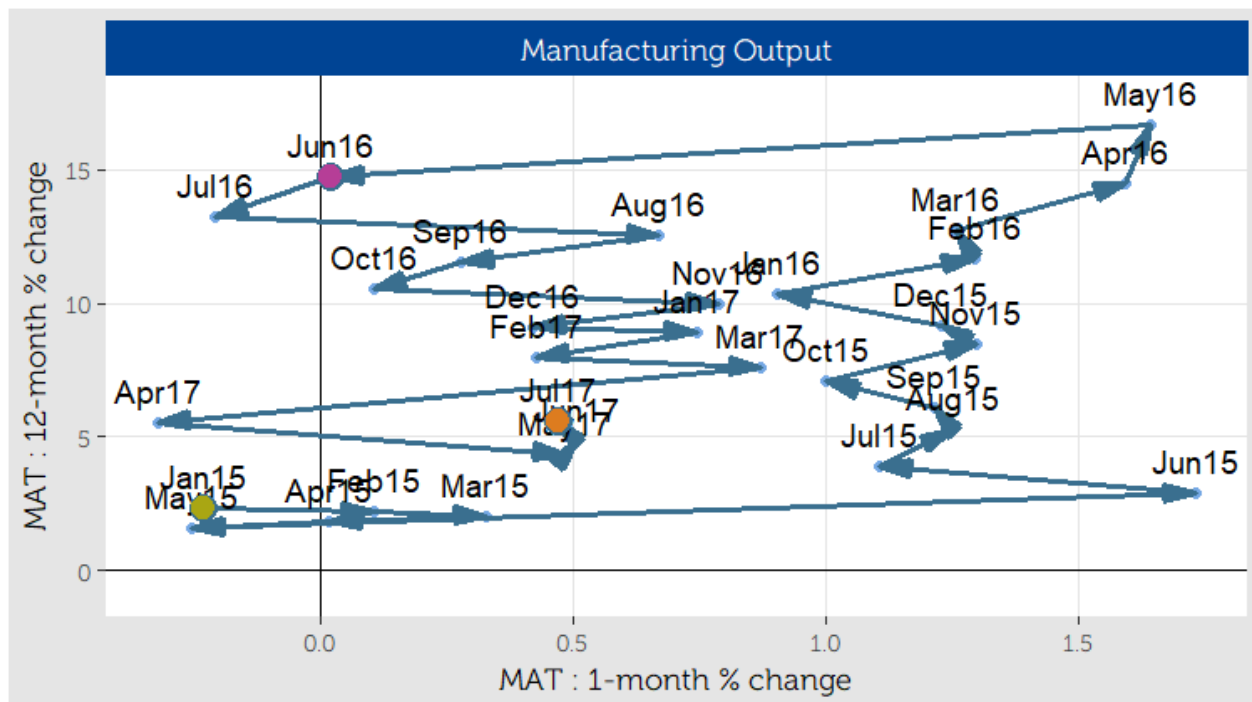
### 12.6 Input Prices (K646)



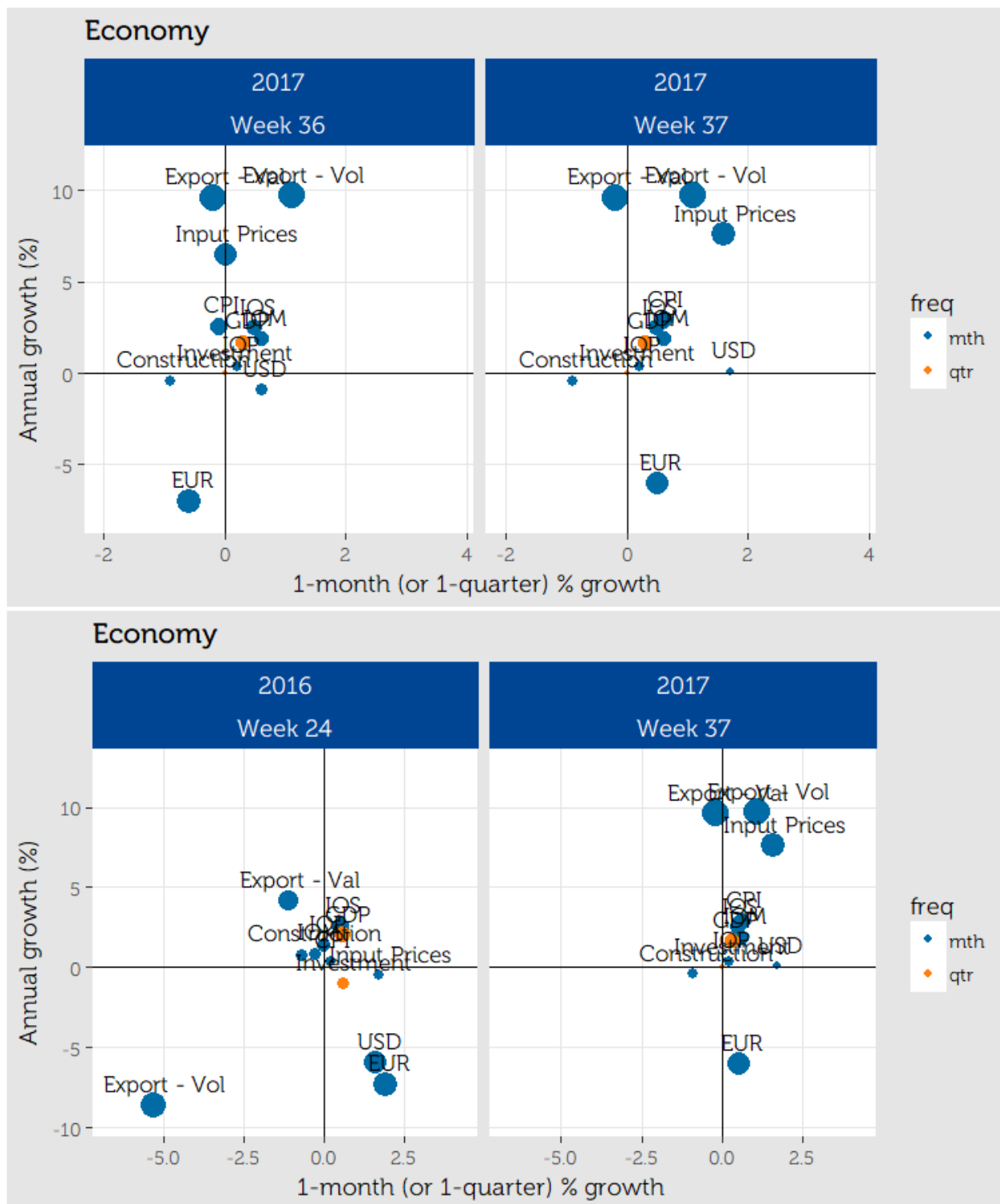
### 12.7 Gross Domestic Product - GDP (ABMI-UKEA)



### 12.8 Manufacturing Output (JT27)



## 12.9 Current State

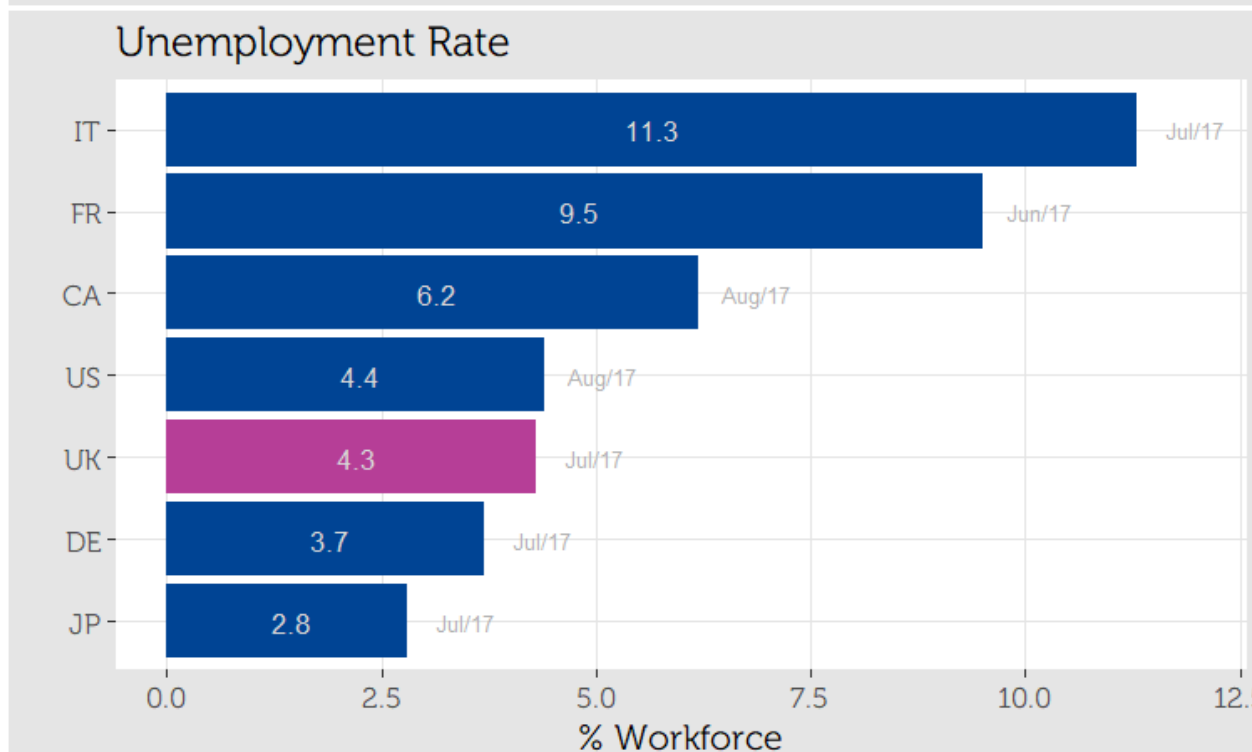
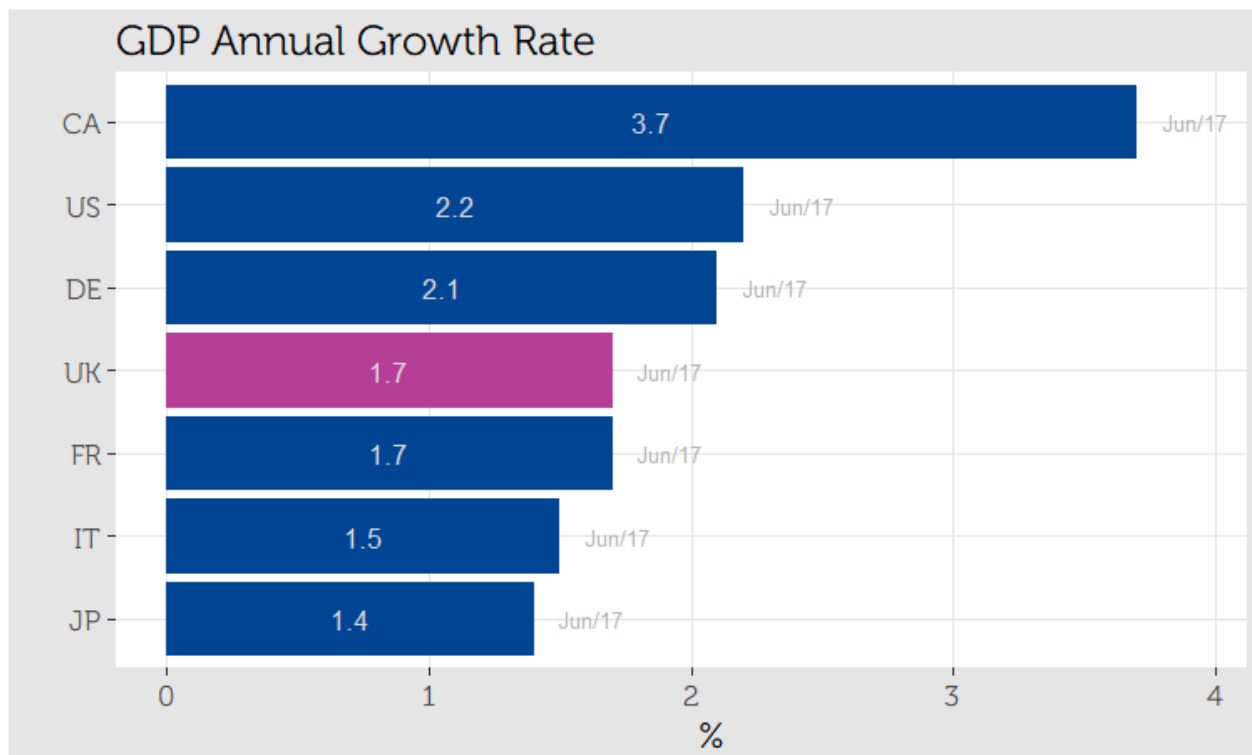


**Top:** Indicators growth - Current week versus previous week.

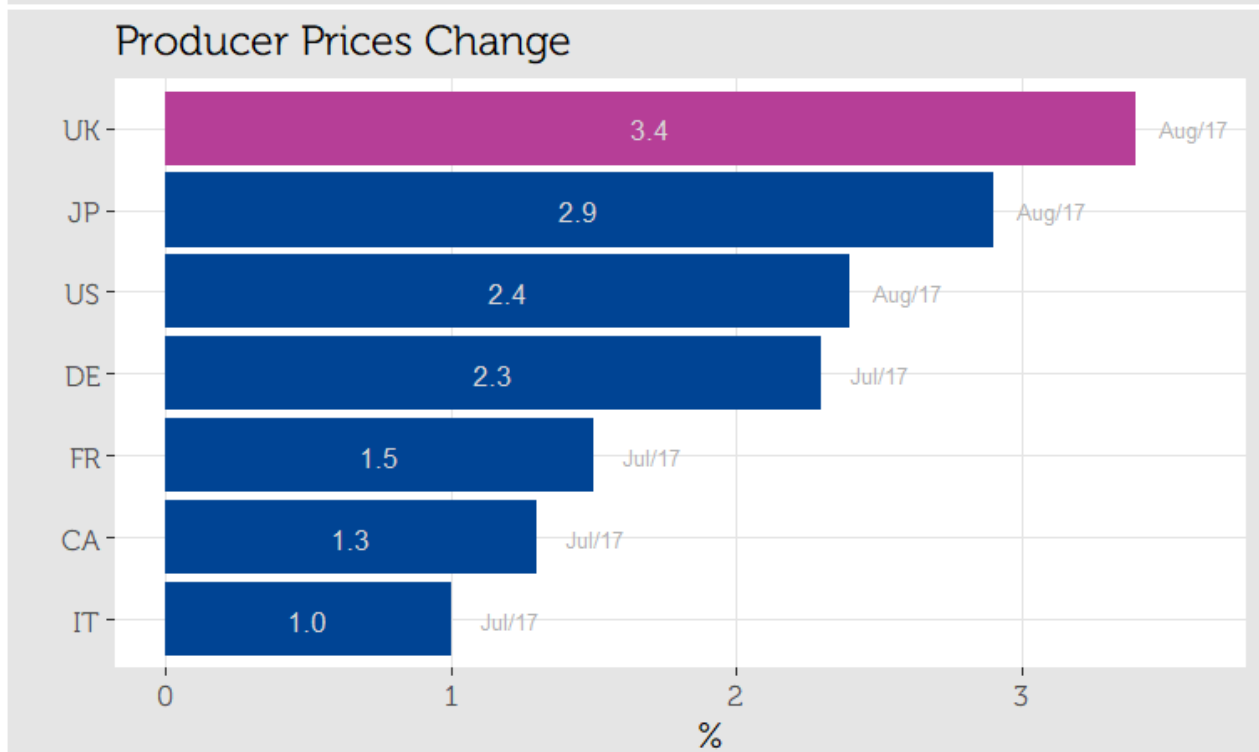
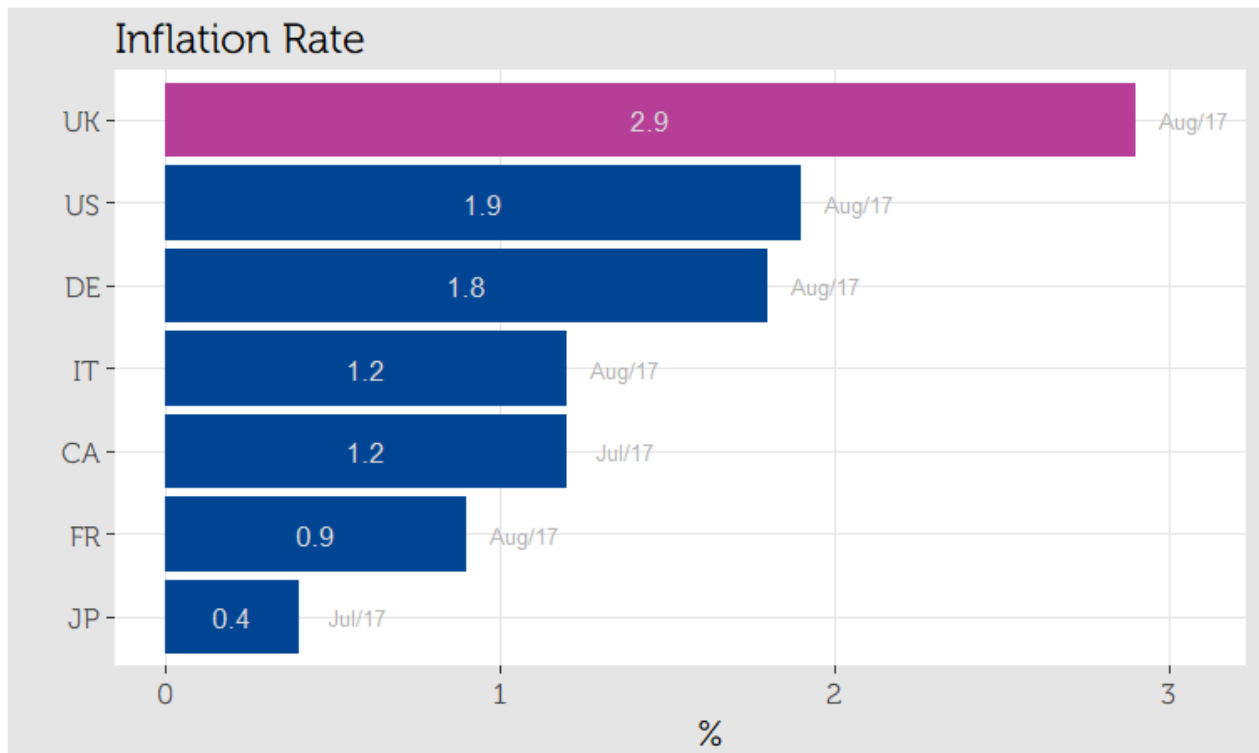
**Bottom:** Indicators Growth - Before Referendum vote versus current week

## 13 G7 Indicators (Latest)

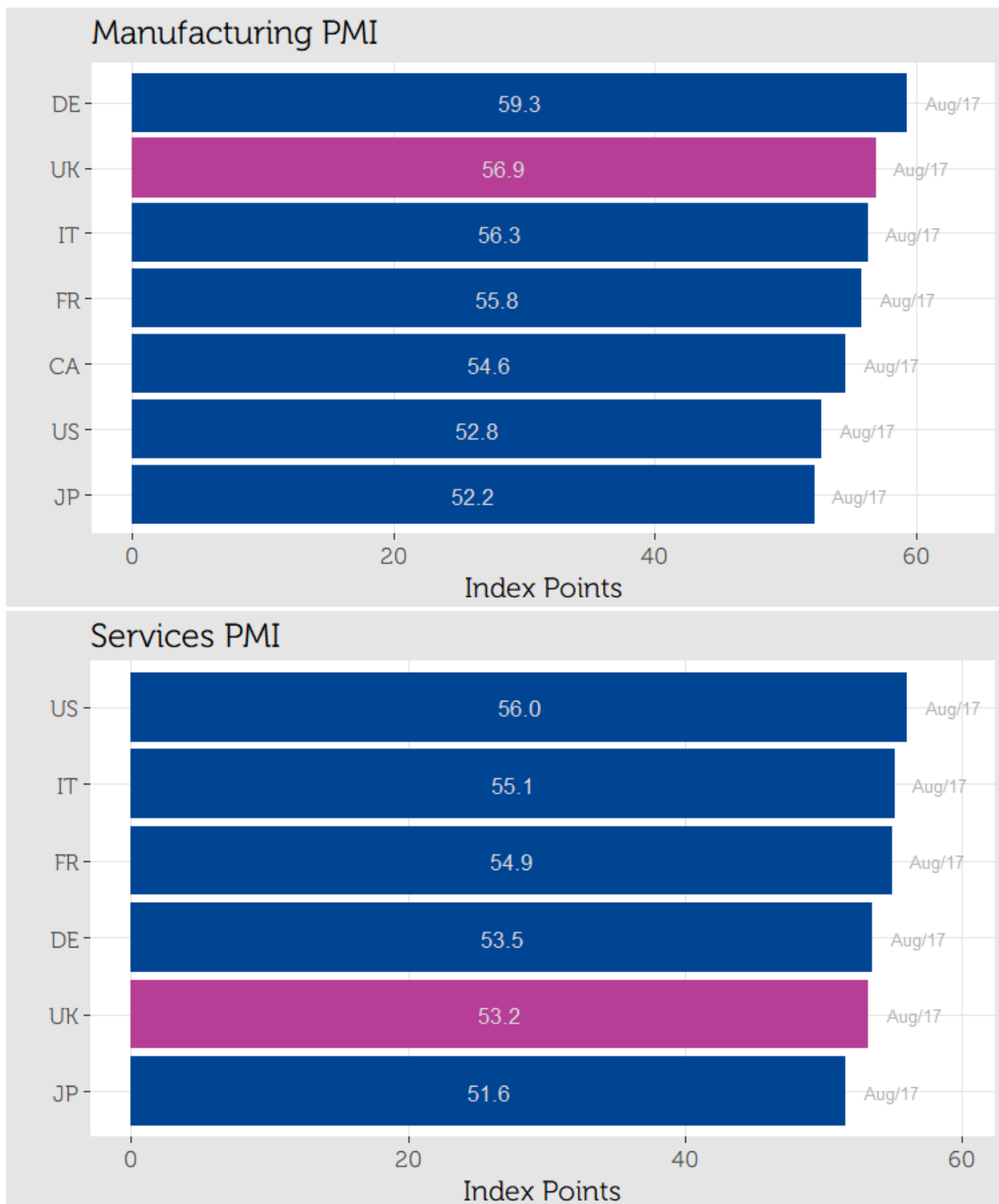
### 13.1 GDP & Unemployment



### 13.2 Inflation & Producer Prices

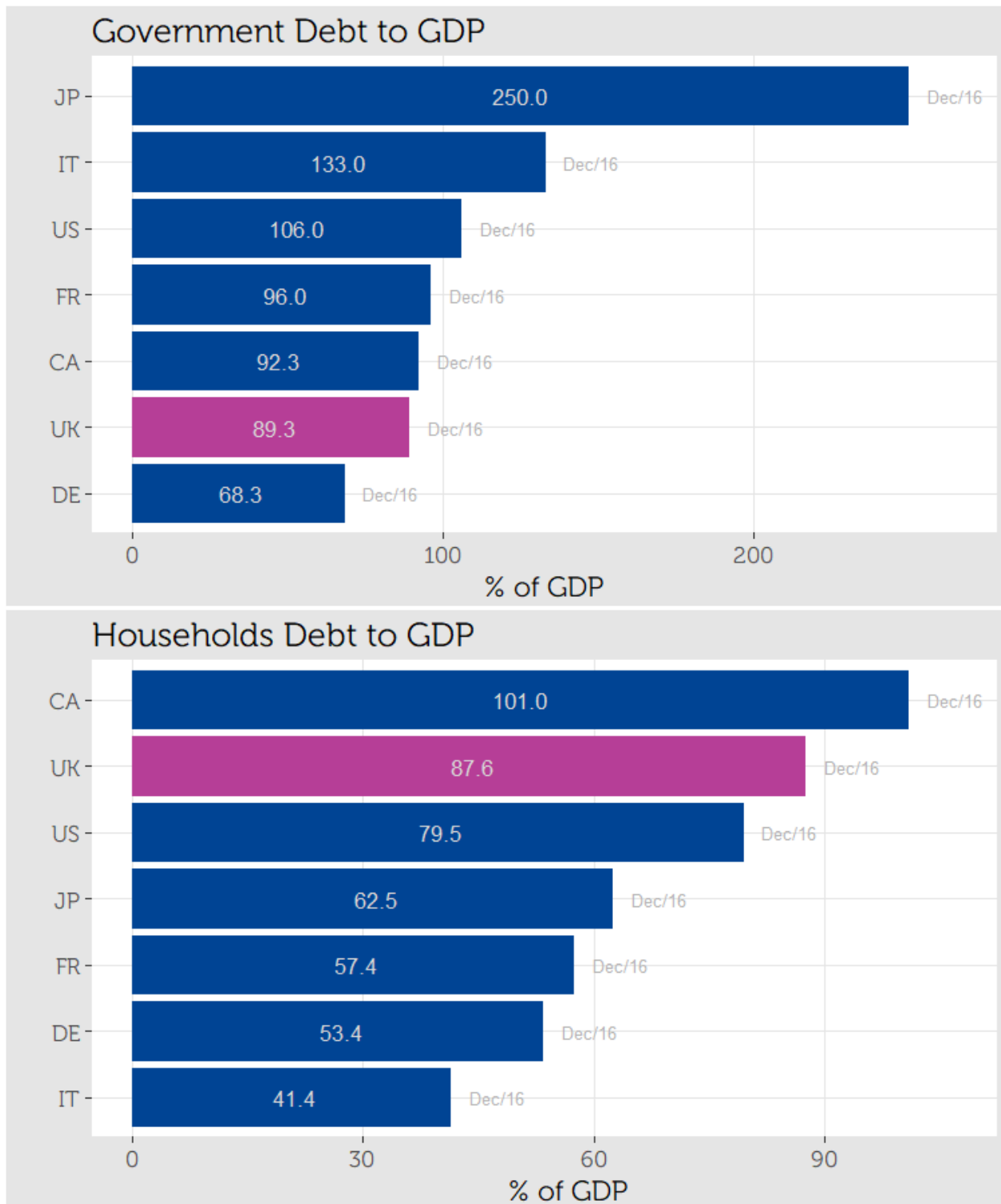


### 13.3 Purchasers Managers Index - Manufacturing & Services

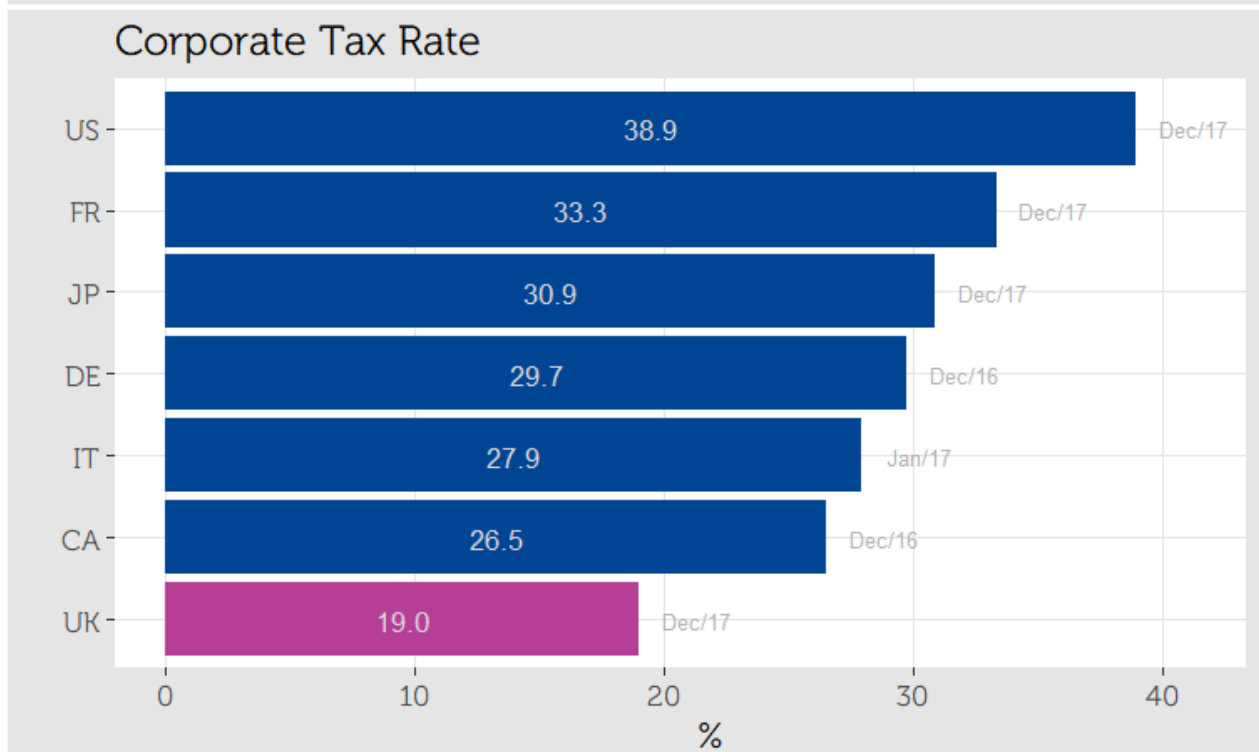
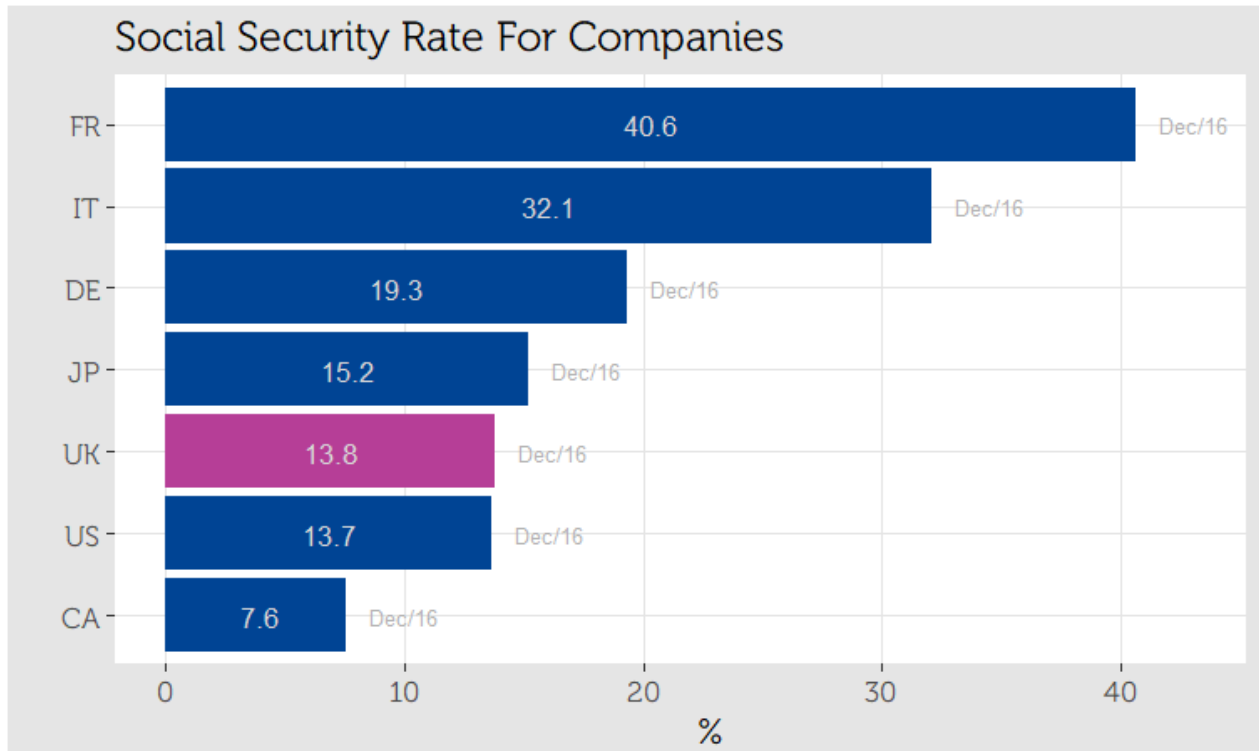




### 13.4 Debt



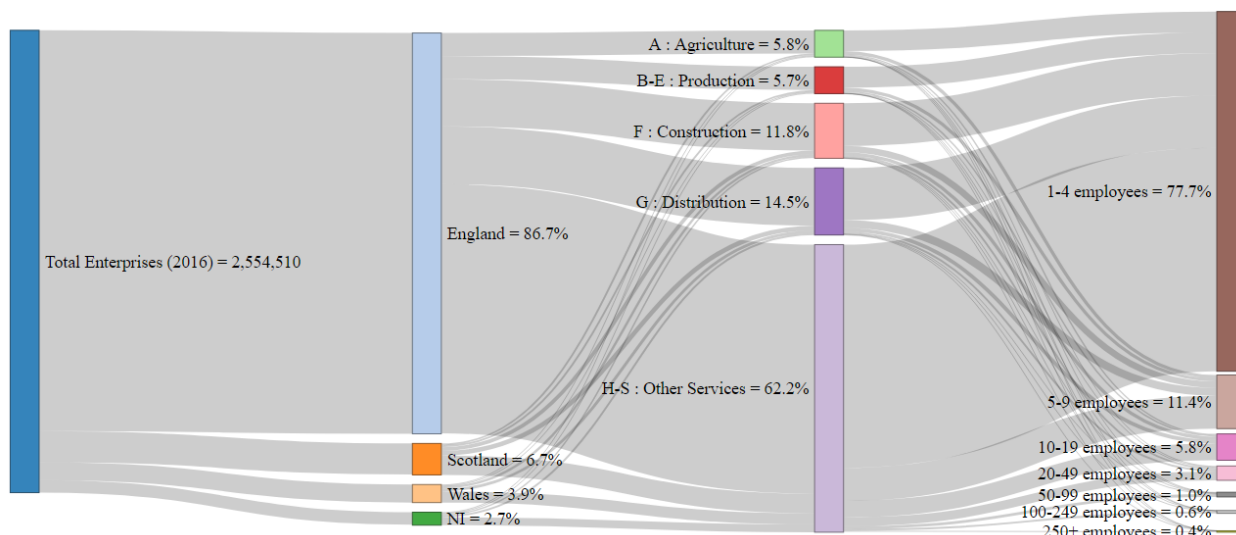
### 13.5 Employer Social Security Rate & Corporate Tax



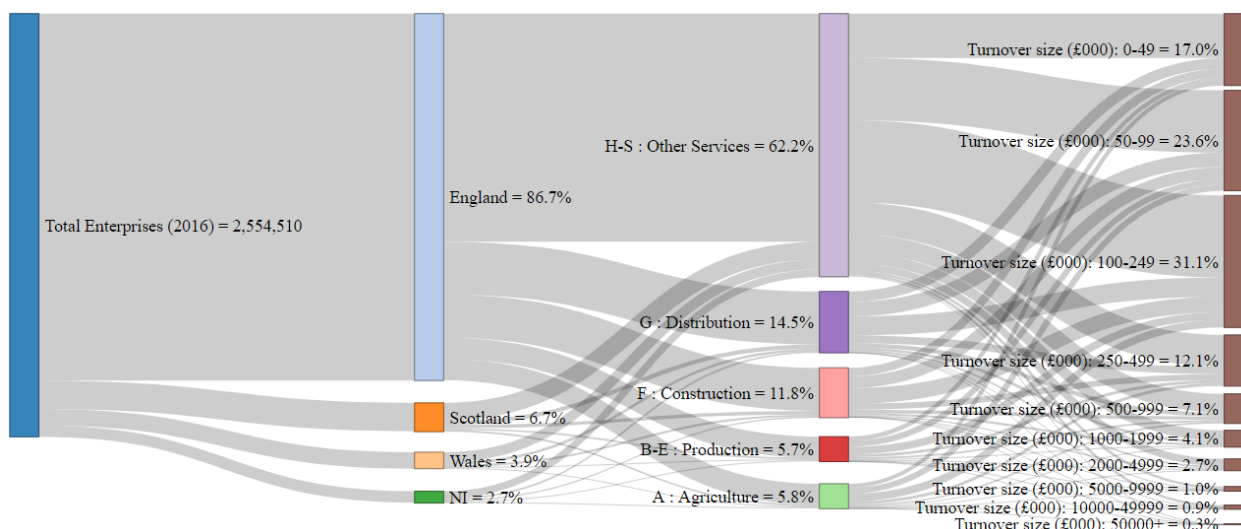
# Appendices

## A UK Businesses: Activity, Size & Location

### A.1 Enterprises by Employment Size Band

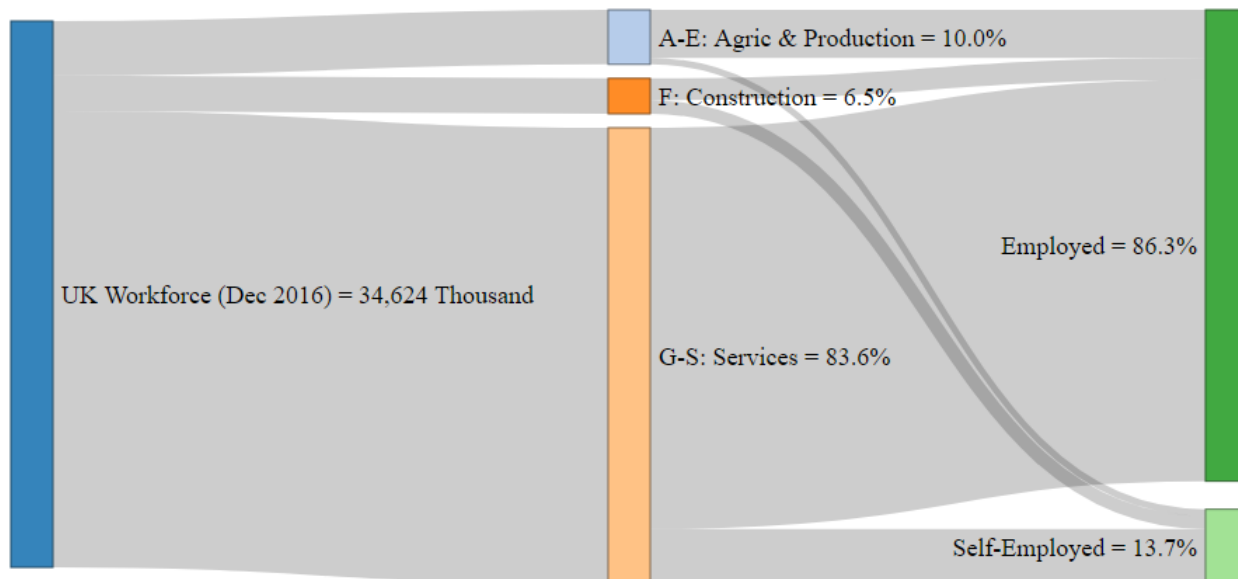


### A.2 Enterprises by Turnover Size Band

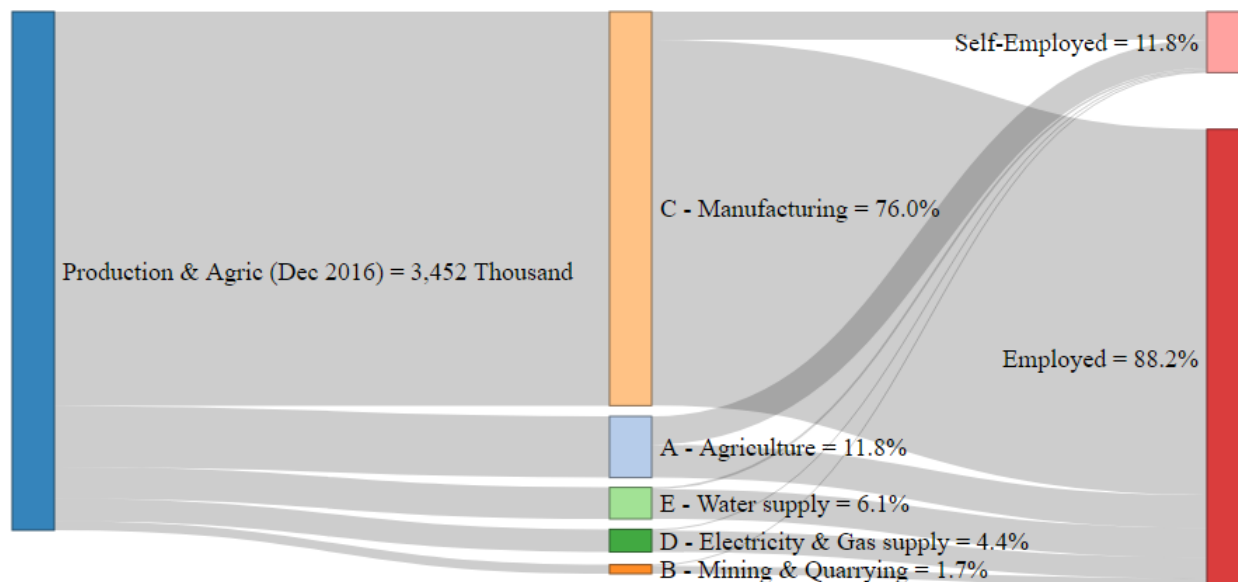


## B UK Employment Structure

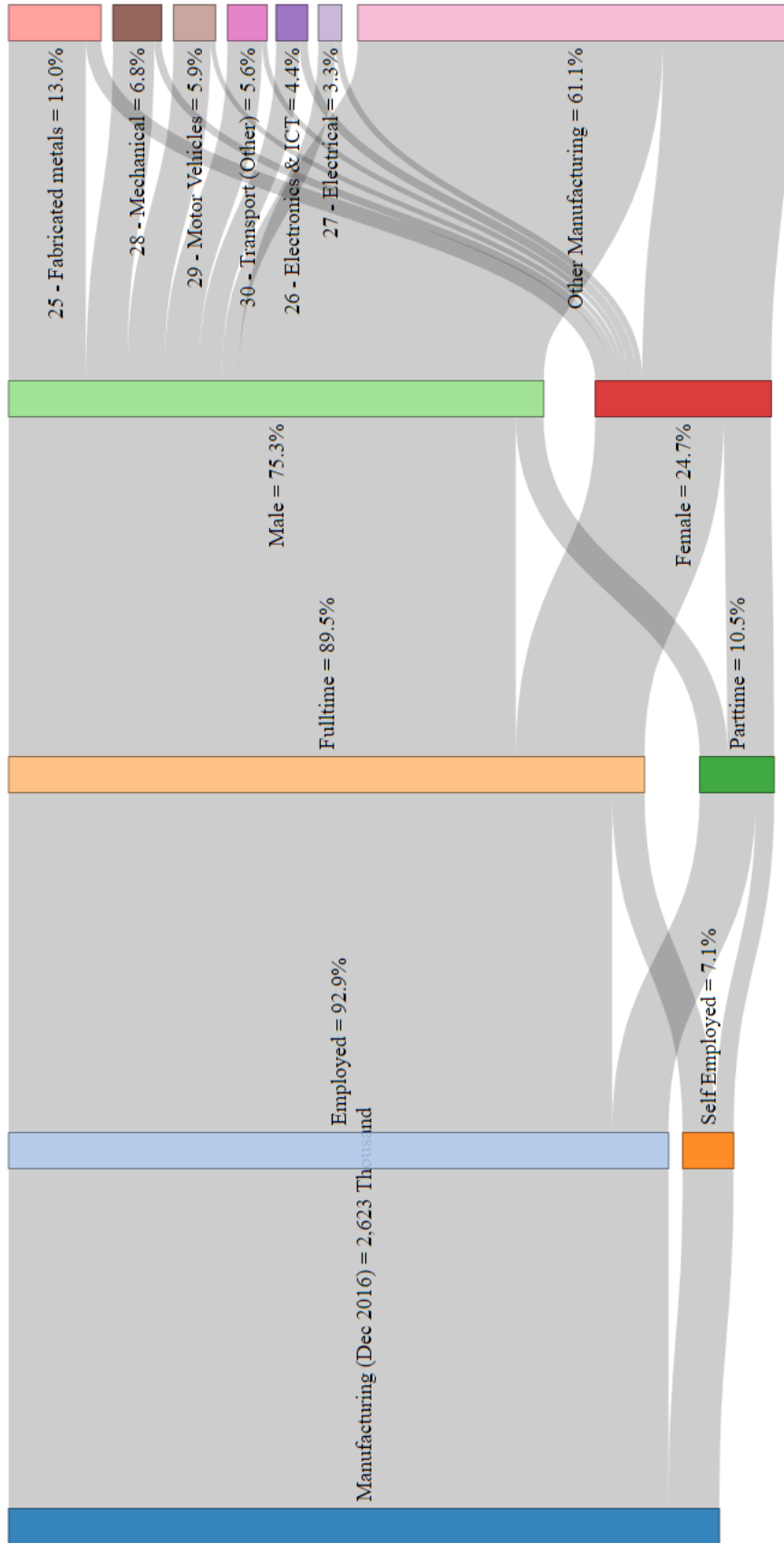
### B.1 UK Workforce



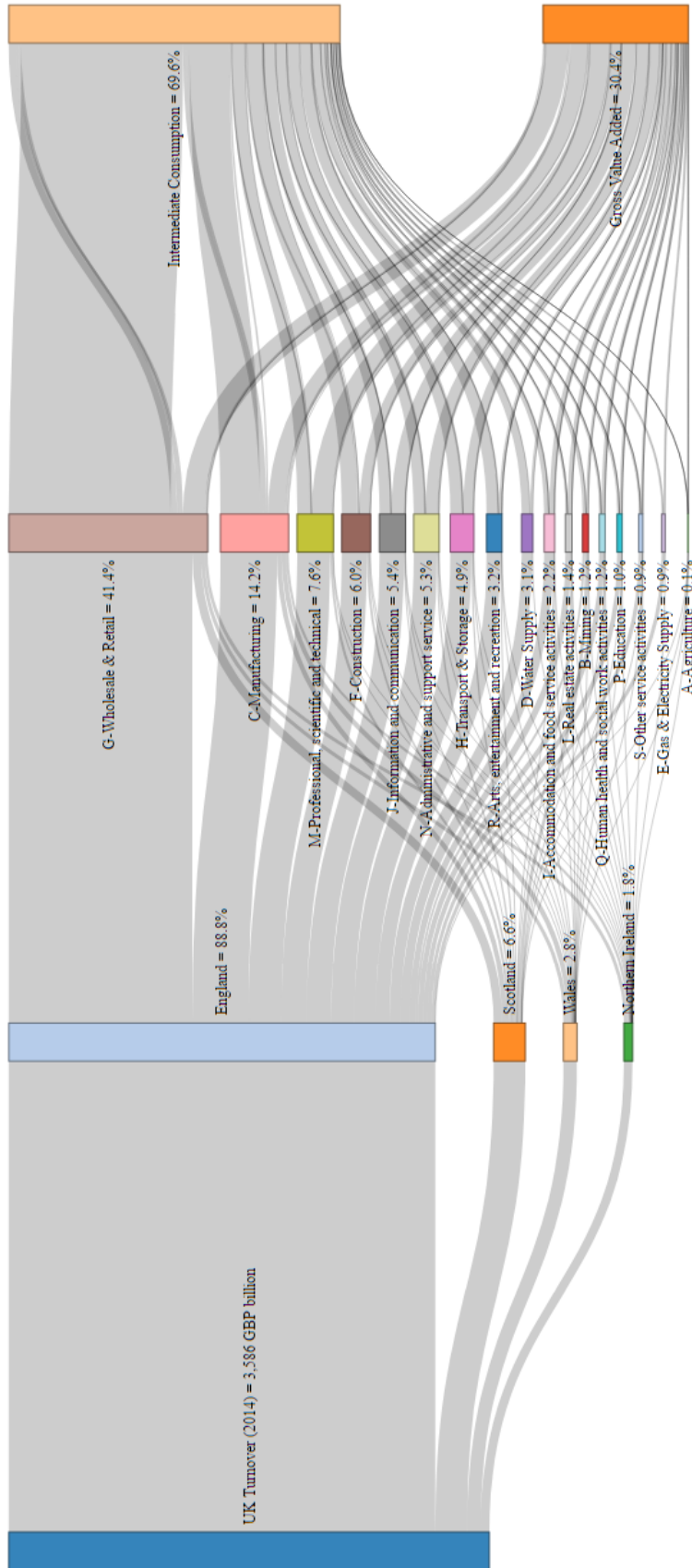
### B.2 UK Production & Agriculture Workforce



### B.3 UK Manufacturing Workforce



# C UK Industrial Output by Region



Excludes **K** (Financial & Insurance Activities) and **O** (Public Administration & Defence)

## D Data sources

- ONS
  - Producer Prices : <http://www.ons.gov.uk/economy/inflationandpriceindices>
  - Consumer Prices: <http://www.ons.gov.uk/economy/inflationandpriceindices>
  - GDP: <http://www.ons.gov.uk/economy/grossdomesticproductgdp>
  - Retail Sales: <http://www.ons.gov.uk/businessindustryandtrade/retailindustry>
  - Business Investment: <http://www.ons.gov.uk/economy/grossdomesticproductgdp>
  - Employment : <http://www.ons.gov.uk/employmentandlabourmarket>
  - Production : <http://www.ons.gov.uk/economy>
  - Exports : <http://www.ons.gov.uk/economy/nationalaccounts/balanceofpayments>
  - Turnover: <http://www.ons.gov.uk/businessindustryandtrade>
  - Annual Business Survey : <https://www.ons.gov.uk/businessindustryandtrade>
  - Construction: <https://www.ons.gov.uk/businessindustryandtrade>
- HMRC
  - UK Trade: <https://www.uktradeinfo.com/Statistics/BuildYourOwnTables>
- ECB
  - Exchange rate: <https://www.ecb.europa.eu/stats/exchange/eurofxref>
- OECD & Trading Economics
  - UK composite indicator <http://stats.oecd.org/Index.aspx>
  - G7 Indicators : <https://tradingeconomics.com/>

## E Information about EURIS

**EURIS** is an advisory body for the potential impacts of the changing relationship between the UK and EU for the UK Government, manufacturers and media. EURIS members are industry trade associations BEAMA, GAMBICA, EAMA, REA, CESA, FETA and TechWorks, covering some 3500 companies across electrotechnical, electronics, renewables and mechanical engineering products. It has a focus on product manufacturers covered by the Single Market and the supporting regulations and standards. For more information on EURIS, please visit <http://www.euristaskforce.org>.

For further information on this report please contact:

**Emmanuel Amoakohene** ([stats@beama.org.uk](mailto:stats@beama.org.uk))

**BEAMA, 3 Albert Embankment, London, SE1 7SL, Tel: 020 7793 3000**