

Statistical bulletin

# Index of Services, UK: December 2019

Monthly movements in output for the services industries.



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# 1. Main points

- In Quarter 4 (Oct to Dec) 2019 services output increased by 0.1% compared with Quarter 3 (July to Sept) 2019.
- Education, human health and social work and real estate activities made the largest contribution to this growth, each contributing 0.05 percentage points.
- The Index of Services increased by 0.3% between November 2019 and December 2019, almost entirely reversing the decline in November.
- The information and communication sector was the largest driver of growth, contributing 0.14 percentage points.
- Services output increased by 1.3% between the fourth quarter of 2018 and the fourth quarter of 2019.
- In the 12 months to December 2019 compared with the previous 12 months, services output grew by 1.8%.

# 2. Quarterly growth

In Quarter 4 (Oct to Dec), services output increased by 0.1% compared with Quarter 3 (July to Sept). The 0.1% quarterly growth is the weakest since Quarter 2 (Apr to June) 2016 when the growth was also 0.1% (Figure 2).

Education, human health and social work and real estate activities were the largest contributing sectors to growth each contributing 0.05 percentage points.

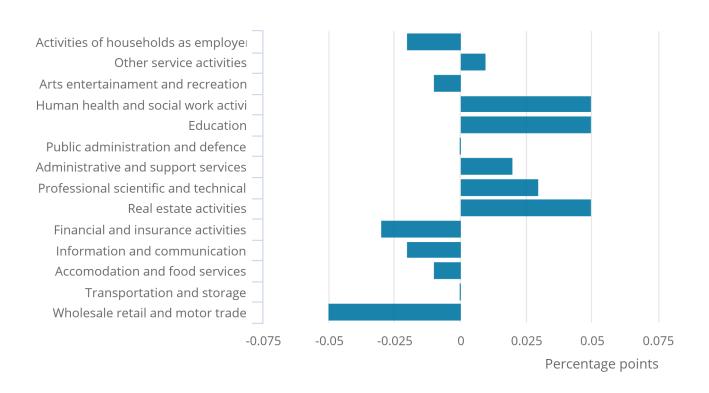
In wholesale and retail trade, retail trade was the only negative contributor, falling by 1%; this is the largest decline in this industry since Quarter 4 2010 when it also fell by 1%, for more information please see <u>Retail sales</u>, <u>Great Britain: December 2019</u>.

# Figure 1: Education, human health and social work and real estate activities were the largest contributing sectors to quarterly growth

Contributions to growth, seasonally adjusted, UK, Quarter 4 (Oct to Dec) compared to Quarter 3 (July to Sept) 2019

## Figure 1: Education, human health and social work and real estate activities were the largest contributing sectors to quarterly growth

Contributions to growth, seasonally adjusted, UK, Quarter 4 (Oct to Dec) compared to Quarter 3 (July to Sept) 2019



## Source: Office for National Statistics

### Notes:

1. Individual contributions may not sum to the total because of rounding.

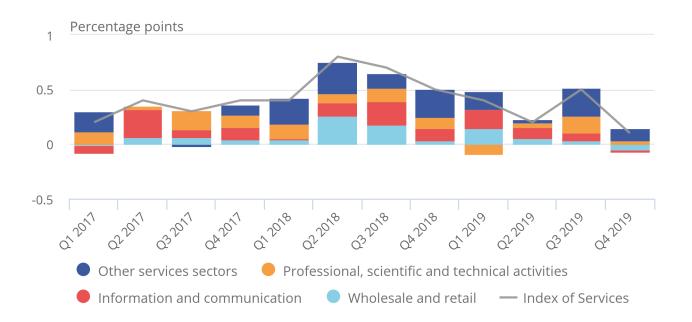
Of the 14 sectors, six saw growth in Quarter 4, with six sectors showing a decrease, and two remained flat. Positive growth and negative growth almost wholly offset each other.

## Figure 2: Quarterly services growth is the lowest since Quarter 2 (Apr to June) 2016

Quarterly Index of Services growth and sector contributions<sup>1</sup> to growth, seasonally adjusted, UK, Quarter 1 (Jan to Mar) 2018 to Quarter 4 (Oct to Dec) 2019

# Figure 2: Quarterly services growth is the lowest since Quarter 2 (Apr to June) 2016

Quarterly Index of Services growth and sector contributions<sup>1</sup> to growth, seasonally adjusted, UK, Quarter 1 (Jan to Mar) 2018 to Quarter 4 (Oct to Dec) 2019



#### Source: Office for National Statistics

Notes:

- 1. Individual contributions may not sum to the total because of rounding.
- 2. Percentage change.

## 3. Month-on-month services growth

Services output increased by 0.3% in December 2019, almost entirely reversing the negative growth of 0.4% in November 2019.

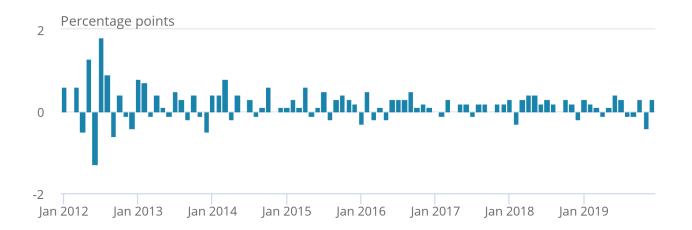
Index of Services (IoS) growth has been subdued through 2019 (Figure 3). Care should be taken when using the month-on-month growth rates as data can be volatile.

## Figure 3: Services growth remains subdued with a 0.3% growth in December 2019

## Monthly Index of Services growth, seasonally adjusted, UK, January 2016 to December 2019

# Figure 3: Services growth remains subdued with a 0.3% growth in December 2019

Monthly Index of Services growth, seasonally adjusted, UK, January 2016 to December 2019



#### Source: Office for National Statistics

The three largest contributors to the monthly growth were: information and communication, financial and insurance activities and transportation and storage. All three sectors growths follow declines in November.

The wholesale, motor and retail trade and arts, entertainment and recreation sectors gave the only negative contributions to growth. In wholesale, retail trade both wholesale trade except for motor vehicles and retail trade contributed negatively. For more information on retail trade please see <u>Retail sales</u>, <u>Great Britain</u>: <u>December 2019</u>. In the arts, entertainment and recreation sector sports activities gave the largest negative contribution declining 2.8%.

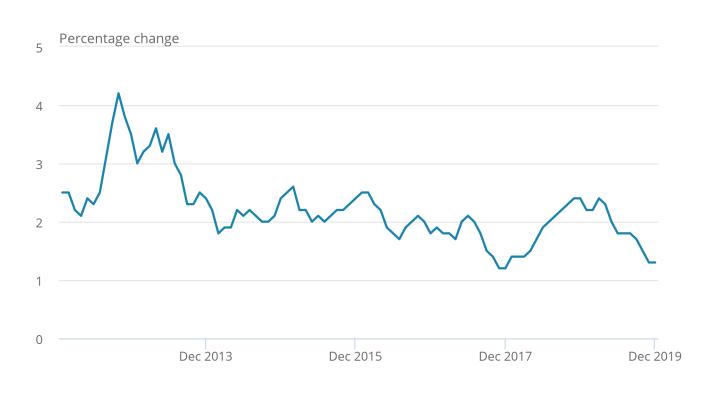
# 4. Quarter 4 (Oct to Dec) 2019 compared with Quarter 4 2018

## Figure 4: Services output increased by 1.3% in quarter 4, continuing a period of subdued growth

Three-month on a year Index of Services growth, seasonally adjusted, UK, January 2012 to December 2019

Figure 4: Services output increased by 1.3% in quarter 4, continuing a period of subdued growth

Three-month on a year Index of Services growth, seasonally adjusted, UK, January 2012 to December 2019



### Source: Office for National Statistics

In Quarter 4 (Oct to Dec) 2019, services output increased by 1.3% compared with Quarter 4 2018, continuing the weakness throughout 2019. More information around the slowdown in three monthly growth compared with the previous year is given in <u>Index of Services, UK: November 2019</u> (Figure 4).

Of the 14 sectors 10 have grown since Quarter 4 2018. Four sectors declined: financial and insurance activities, activities as households as employers, accommodation and food services, and arts entertainment and recreation. The single largest negative contributing industry was architectural and engineering activities which fell by 5.1%, this follows a fall of 7.7% in Quarter 3 2019 compared with Quarter 3 2018. Positive contribution to growth was widespread among the 10 sectors with the largest positively contributing industries being motion pictures, video and TV, and education.

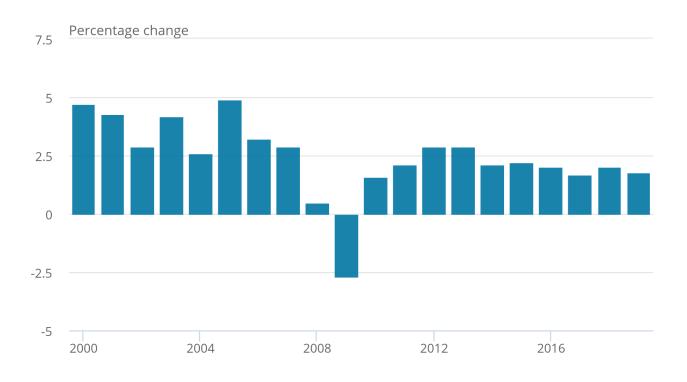
# 5. Services output in 2019 compared with 2018

# Figure 5: The Index of Services has shown growth every year except for 2009, albeit subdued in recent years

## Twelve-month on a year growth, seasonally adjusted, UK, 2000 to 2019

# Figure 5: The Index of Services has shown growth every year except for 2009, albeit subdued in recent years

Twelve-month on a year growth, seasonally adjusted, UK, 2000 to 2019



### Source: Office for National Statistics

Services output grew 1.8% in 2019 (Figure 5), the largest contributions are from information and communication and wholesale, motor and retail trade (Figure 6), this is a continuation of subdued growth since 2013. Of the 14 sectors only two contributed negatively: financial and insurance activities, and activities of households as employers. In financial and insurance activities, most of the negative growth was contributed by financial service activities, except insurance and pension funding which declined 2.9% compared with 2018.

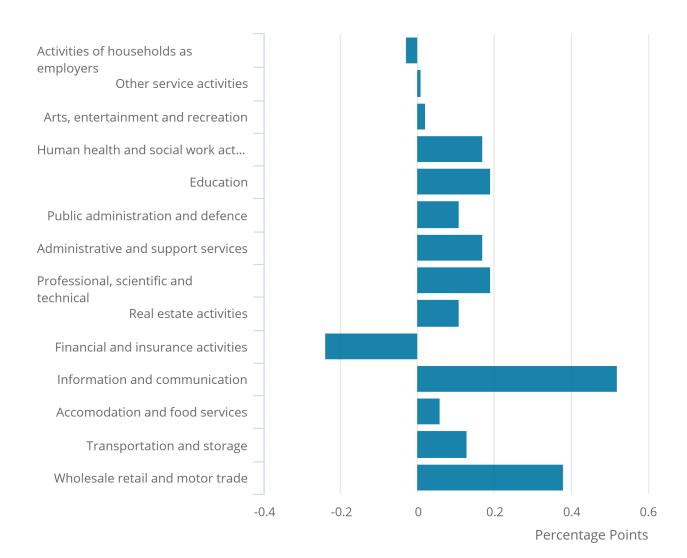
The largest industry contribution to annual growth was computer programming, consultancy and related activities which continues a long period of growth, followed closely by retail trade, except motor vehicles (for more information on retail trade, except motor vehicles please see <u>Retail sales, Great Britain: December 2019</u>).

# Figure 6: The largest contributions to annual growth is information and communication and wholesale, motor and retail trade. Financial activities caused the largest downward contribution

## Twelve-month on a year Index of Services growth, seasonally adjusted, UK, December 2019

## Figure 6: The largest contributions to annual growth is information and communication and wholesale, motor and retail trade. Financial activities caused the largest downward contribution

Twelve-month on a year Index of Services growth, seasonally adjusted, UK, December 2019



### Source: Office for National Statistics

### Notes:

1. Individual contributions may not sum to the total because of rounding.

# 6. Index of Services data

#### Index of Services time series

Dataset | Dataset ID: IOS1 | Released on 11 February 2020 Monthly movements in output for the services industries: distribution, hotels and restaurants; transport, storage and communication; business services and finance; and government and other services.

## Monthly Business Survey turnover of services industries

Dataset | Released on 11 February 2020 Monthly Business Survey services industries' total turnover; current price and non-seasonally adjusted, UK.

Index of Services, main components and sectors to four decimal places

Dataset | Released on 11 February 2020

Monthly historic movements in output for services and their industry components, by chained volume indices of gross value added, UK.

Index of Services revisions triangles

Dataset | Released on 11 February 2020 Monthly chained volume indices in gross value added for services and its main components.

All data related to the Index of Services are available on the Related data page.

# 7. Glossary

## Index number

The index number is a measure of the average level of prices, quantities or other measurable characteristics relative to their level for a defined time period or location.

## Industrial classification or breakdown

The industrial classification or breakdown is the internationally standardised method for classifying the wide range of industrial sectors in an economy. We use the <u>Standard Industrial Classification 2007 (SIC 2007)</u> for industrial breakdowns.

## **Monthly Business Survey**

The Monthly Business Survey (MBS) collects information on the monthly turnover of UK businesses within the production and service sectors from various industrial sectors and regions in the UK.

## Services

Services refers to the output produced by the services industries within the UK economy. There are four main components of the services industries: distribution, hotels and restaurants; transport, storage and communication; business services and finance; and government and other services. Overall, services industries account for around 79.6% of gross domestic product (GDP).

## Turnover

The turnover of a company is the value of the goods or services sold during a particular time period. It includes total takings or invoiced sales and receipts. Interest and similar income, "other operating income", and extra ordinary income is excluded. Value Added Tax (VAT) invoiced to the customer is excluded.

# 8. Measuring the data

## Data sources and collection

The Index of Services (IoS) is compiled using data from several different sources:

- ONS: Monthly Business Survey (42.4%)
- ONS: Retail Sales Inquiry (6.7%)
- ONS: Government Expenditure (20.1%)
- ONS: Households Expenditure (16.0%)
- ONS: Finance Expenditure (8.3%)
- Other (6.5%)

The Monthly Business Survey (MBS) data are published alongside this release in <u>MBS turnover in services</u> industries.

Data relating to the retail industry are broadly comparable with <u>Retail sales, Great Britain: October 2019,</u> published on 14 November 2019.

For further information on what is included within Other, please see the GDP(o) data sources catalogue.

Percentage of each data source is based on their gross value added weight. The <u>GDP(o) methods and sources</u> pages provide more information on the data that underpin these statistics; of particular note is the <u>GDP(o) data</u> sources catalogue.

From January 2018, Value Added Tax (VAT) data have also been included across 64 production industries for small- and medium-sized businesses. For more information, see <u>VAT turnover data in National Accounts:</u> <u>background and methodology</u>.

## Quality and methodology

More quality and methodology information on strengths, limitations, appropriate uses, and how the data were created is available in the <u>Index of Services QMI</u>.

## After EU withdrawal

As the UK leaves the EU, it is important that our statistics continue to be of high quality and are internationally comparable. During the transition period, those UK statistics that align with EU practice and rules will continue to do so in the same way as before 31 January 2020.

After the transition period, we will continue to produce our national accounts statistics in line with the UK Statistics Authority's (UKSA's) <u>Code of Practice for Statistics</u> and in accordance with internationally agreed statistical guidance and standards.

The Withdrawal Agreement outlines a need for UK Gross National Income (a fundamental component of the national accounts, which includes gross domestic product (GDP)) statistics to remain in line with those of other EU countries until the EU budgets are finalised for the years in which we were a member. To ensure comparability during this cycle, the national accounts will continue to be produced according to <u>European System</u> of Accounts (ESA) 2010 definitions and standards.

# 9. Strengths and limitations

## Seasonal adjustment

The data published in the Index of Services (IoS) release are all seasonally adjusted. This aids interpretation by removing annually recurring fluctuations, for example, those caused by holidays or other seasonal patterns.

## Data volatility

Care should be taken when using the month-on-month growth rates as data can be volatile. Longer-term growth rates and examination of the time series allow for better interpretation of the statistics.

## International comparisons

International comparison with the IoS is difficult, as most comparable economies do not produce equivalent estimates.

<u>Eurostat turnover in services estimates</u> are not comparable with the IoS, as they exclude the wholesale and retail trade; furthermore, most of the estimates are only available quarterly. The <u>US Bureau of Economic Analysis</u> also produces services output estimates, but only on a quarterly basis, with a four-month lag time. <u>Japan has a direct</u> equivalent of the IoS, but the estimates are not seasonally adjusted.

The <u>closest equivalent estimates are from Canada</u>, which produces a monthly output estimate of GDP with a breakdown by industry (including an aggregate for services). There are also comparable <u>quarterly estimates from</u> <u>Sweden</u> and <u>quarterly estimates from Ireland</u>.

More information on the strengths, limitations, accuracy and reliability of the IoS data can be found in the <u>Index of</u> <u>Services QMI</u>.

# 10. Related links

A comparison between official estimates of UK output and diffusion indices

Article | Released 21 October 2019

The level of correlation between Office for National Statistics (ONS) data and IHS Markit and Chartered Institute of Procurement and Supply Purchasing Managers' Indices.

## GDP monthly estimate, UK: December 2019

Bulletin | Released 11 February 2020

Gross domestic product (GDP) measures the value of goods and services produced in the UK. It estimates the size of and growth in the economy and includes the Index of Production (IoP), Index of Services (IoS) and construction output in Great Britain.

Services sector performance, UK: 2008 to 2018

Article | Released 2 April 2019

The article details the changes that have taken place in the UK services sector from 2008 to 2018. It also looks at the differences between public sector-dominated sectors and the rest of the Index of Services (IoS) and compares the growth of individual IoS sectors in more detail.

## Index of Production, UK: December 2019

Bulletin | Released 11 February 2020

Movements in the volume of production for the UK production industries: manufacturing, mining and quarrying, energy supply, and water and waste management.

## Office for National Statistics

## Index of Services - Publication Tables

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Press this symbol within the tables to return here.

Metadata	Breakdown of metadata used in the IOS ta	ables.
Table 1	IOS 1 - Total services & Sections G-T	(Index and Annual growth)
Table 2	IOS 1 - Total services & Sections G-T	(Month on Month growth)
Table 3	IOS 1 - Total services & Sections G-T	( 3 Months on 3 Months growth)
Table 4	RIOS 1 - Index and Annual revisions	
Table 5	RIOS 1 - Month on Month revisions	
Table 6	RIOS 1 - 3 Months on 3 Months revisions	
Table 7	IOSCOMP - Components 45 - 47	(Index and Annual growth)
Table 8	IOSCOMP- Components 45 - 47	(Month on Month growth)
Table 9	IOSCOMP - Components 45 - 47	( 3 months on 3 months growth)
Table 10	IOSCOMP - Components 49 - 52	(Index and Annual growth)
Table 11	IOSCOMP - Components 49 - 52	(Month on Month growth)
Table 12	IOSCOMP - Components 49 - 52	( 3 Months on 3 Months growth)
Table 13	IOSCOMP - Components 53 - 56	(Index and Annual growth)
Table 14	IOSCOMP - Components 53 - 56	(Month on Month growth)
Table 15	IOSCOMP - Components 53 - 56	( 3 Months on 3 Months growth)
Table 16	IOSCOMP - Components 58 - 62	(Index and Annual growth)
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Table 18	IOSCOMP - Components 58 - 62	( 3 Months on 3 Months growth)
Table 19	IOSCOMP - Components 63 - 66	(Index and Annual growth)
Table 20	IOSCOMP - Components 63 - 66	(Month on Month growth)
Table 21	IOSCOMP - components 63 - 66	( 3 Months on 3 Months growth)
Table 22	IOSCOMP - components 68	(Index and Annual growth)
Table 23	IOSCOMP - components 68	(Month on Month growth)
Table 24	IOSCOMP - components 68	( 3 Months on 3 Months growth)
Table 25	IOSCOMP - components 69 - 72	(Index and Annual growth)
Table 26	IOSCOMP - components 69 - 72	(Month on Month growth)
Table 27	IOSCOMP - components 69 - 72	( 3 Months on 3 Months growth)
Table 28	IOSCOMP - components 73 - 77	(Index and Annual growth)

The below table provides a breakdown of what is inlcuded in the Index of Services including the four services categories, the section and industry levels.

Index of Services G & I: Distribution, hotels & catering H & J: Transport, storage & communications K - N: Business services & finance O - T: Government & other services C + LDistribution, hotels & catering
 C:Wholesale, retail and motor trade
 As Whotesale And Retail Trade And Repair CI Motor Vehicles And Motorcycles
 As Whotesale And Retail Trade And Whotor Vehicles And Motorcycles
 As Whotesale Trade, Except Of Motor Vehicles And Motorcycles
 It-Retail Trade, Except Of Motor Vehicles And Motorcycles
 It-Accommodation and food services
 It-Accommodation 55: Accommodation 56: Food And Beverage Service Activities 56: Food And Beverage Service Activities

4 **A** J.Transportia and storage
43: 1-2: Rail transport and storage
43: 1-2: Rail transport envices and transport services via pipelines, excluding rail transport
43: A-2: Rail transport envices and transport services via pipelines, excluding rail transport
43: A-2: Rail transport envices and transport services via pipelines, excluding rail transport
53: Potal Ard Courier Activities
54: Potal Ard Courier Activities
55: Molion Picture, Video & TV Programme Production, Sound Recording & Music Publishing Activities
56: Notion Picture, Video & TV Programme Production, Sound Recording & Music Publishing Activities
56: Programming Ard Broadcasting activities
56: Telecommunications
16: Telecommunications
16: Telecommunications
16: Telecommunications
16: Roter and other Information service activities
65: Information Service Activities
65: Information Service Activities
16: Networks
16: Network 

#### IOS1 IOS: Index of Services 1

	Industry sections (SIC2007)						
				Business	Govern-		
	Total	Distribution	Transport,	services	ment and		
	service	hotels and	storage and	and	other		
	industries	restaurants	communication	finance	services		
Section	G-T	G and I	H and J	K-N	O-T		
2016 weights	1000	167	135	426	272		
	S2KU	S2MV	KI7B	KI7L	KI7T		
2015	98.0	96.5	97.3	97.4	100.5		
2016	100.0	100.0	100.0	100.0	100.0		
2017 2018	101.7 103.7	102.4	103.6 107.6	101.0 102.8	101.2 101.9		
2019	105.5	105.5 108.2	112.5	102.8	101.9		
2017 Dec	102.4	102.8	105.7	102.0	101.2		
2018 Jan	102.8	103.4	105.4	102.6	101.3		
Feb	102.4	103.5	104.4	102.1	101.2		
Mar	102.7	103.0	105.4	102.4	101.5		
Apr	103.1	104.1	105.9	102.7	101.6		
May	103.5	105.8	106.6	102.7	101.7		
Jun	103.6 103.9	105.9	107.0 107.2	102.8 103.0	101.9 101.9		
Jul Aug	103.9	106.9 106.6	107.2	103.0	101.9		
Sep	104.1	106.0	109.0	102.9	102.1		
Oct	104.5	106.8	109.5	103.4	102.2		
Nov	104.8	107.7	110.0	103.4	102.4		
Dec	104.5	106.7	110.6	103.0	102.6		
2019 Jan	104.9	108.0	111.5	102.8	102.8		
Feb	105.1	108.1	111.7	103.1	103.0		
Mar	105.2	108.4	111.8	103.1	103.2		
Apr	105.1	108.3	112.5	102.7	103.1		
May	105.2	108.4	112.0	103.0	103.3		
Jun	105.6	108.5	112.7	103.3	103.7		
Jul	105.9	108.6	113.8	103.8	103.7		
Aug	105.8	108.5	112.4	103.7	104.2		
Sep	105.7	108.1	113.2	103.4	104.2		
Oct	106.1	108.5	113.7	104.0	104.2		
Nov	105.6	107.9	111.8	103.5	104.4		
Dec	106.0	107.5	113.5	104.0	104.5		
Percentage change, late	est year on previous year						
	S222	S243	KI77	KI7G	KI7O		
2015	2.2	4.0	3.7	2.1	0.7		
2016	2.0	3.7	2.8	2.7	-0.5		
2017	1.7	2.4	3.6	1.0	1.2		
2018	2.0	3.0	3.8	1.8	0.7		
019	1.8	2.6	4.6	0.5	1.8		
Percentage change, late	est month on same month	a vear ago					
eroentage onange, iate	S26Q	S28R	KI7A	KI7I	KI7Q		
017 Dec	1.3	0.8	4.0	1.0	0.8		
2018 Jan	1.6	2.0	4.0	1.5	0.4		
Feb	1.3	1.4	2.6	1.6	0.3		
Mar	1.3	0.9	3.0	1.7	0.3		
Apr	1.8	1.6	2.8	2.6	-		
May	1.9	3.8	3.4	1.8	0.1		
Jun	1.9	3.3	2.7	1.9	0.6		
Jul	2.3	4.2	3.6	2.0	0.8		
Aug	2.3	3.7	4.7	1.8	0.8		
Sep	2.1	3.3	5.0	1.5	0.9		
Oct	2.5	3.9	4.3	2.1	1.4		
Nov	2.5	4.5	5.1	1.7	1.4		
Dec	2.1	3.8	4.7	1.0	1.4		
019 Jan	2.0	4.4	5.8	0.2	1.4		
Feb	2.6	4.5	7.0	0.9	1.8		
Mar Apr	2.4 2.0	5.2 4.0	6.1 6.2	0.6	1.7 1.5		
May	2.0	4.0 2.4	5.0	0.3	1.5		
Jun	1.9	2.4 2.5	5.3	0.5	1.8		
Jul	1.9	2.5	5.3 6.2	0.5	1.8		
Aug	1.6	1.8	3.2	0.8	2.0		
Sep	1.5	2.0	3.0	0.5	1.9		
Oct	1.5	1.6	3.8	0.6	1.7		
Nov	0.8	0.2	1.6	0.0	2.0		

The IOS output is designated as a National Statistic.
 Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".
 Estimates cannot be regarded as accurate to the last digit shown.
 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
 A complete run of data is available on the ONS website as a <u>Time series dataset</u>.



#### IOS: Index of Services<sup>1</sup>

Chained volume indices of gross value added  $^{\rm 2,3,4}$ 

seasonally adjusted 2016 = 100

	Industry sections (SIC2007)						
	Total	Distribution	Transport,	Business services	Govern- ment and		
	service industries	hotels and restaurants	storage and communication	and	other		
Section	G-T	G and I	H and J	K-N	0-T		
2016 weights	1000	167	135	426	272		
Percentage change, latest	month on previous m	onth					
0 0 /	S222	S243	KI77	KI7G	KI7O		
2017 Dec	0.2	-0.3	1.0	0.3	0.2		
2018 Jan	0.3	0.6	-0.3	0.6	0.1		
Feb	-0.3	-	-0.9	-0.4	-0.1		
Mar	0.3	-0.4	1.0	0.3	0.3		
Apr	0.4	1.1	0.5	0.3	0.1		
May	0.4	1.7	0.6	-0.1	0.1		
Jun	0.2	-	0.4	0.1	0.2		
Jul	0.3	1.0	0.1	0.2	-		
Aug	0.2	-0.4	1.7	-0.1	0.2		
Sep		-0.5	0.9	-0.1	0.1		
Oct	0.3	0.7	-0.4	0.5	0.2		
Nov	0.2	0.9	0.5	-			
Dec	-0.2	-1.0	0.6	-0.4	0.2		
2019 Jan	0.3	1.3	0.8	-0.2	0.1		
Feb	0.0	0.1	0.0	0.2	0.3		
Mar	0.2	0.3	0.1	0.0	0.2		
Apr	-0.1	-0.1	0.7	-0.3	-0.1		
	0.1	-0.1	-0.5	0.2	0.1		
May	0.1	0.2	-0.5	0.2	0.1		
Jun	0.4	0.2		0.3	0.4		
Jul		-	1.0		-		
Aug	-0.1	-0.1	-1.2	-0.1	0.5		
Sep	-0.1	-0.3	0.7	-0.3	-		
Oct	0.3	0.3	0.4	0.6	-		
Nov Dec	-0.4 0.3	-0.5 -0.4	-1.6 1.5	-0.4 0.4	0.2 0.1		
			1.5	0.4	0.1		
Percentage change, latest	3 months on same 3 S2G6	months a year ago S2I7	KI7C	KI7J	KI7R		
2017 Dec	1.2	1.3	3.5	0.6			
2017 Dec 2018 Jan	1.2	1.3	3.5	1.0	1.0 0.7		
Feb	1.4	1.4	3.5	1.0	0.7		
Mar	1.4	1.4	3.2		0.3		
	1.4			1.6	0.3		
Apr		1.3	2.8	1.9			
May	1.7	2.1	3.1	2.0	0.2		
Jun	1.9	2.9	3.0	2.1	0.2		
Jul	2.0	3.8	3.2	1.9	0.5		
Aug	2.1	3.7	3.7	1.9	0.7		
Sep	2.2	3.7	4.5	1.8	0.8		
Oct	2.3	3.6	4.7	1.8	1.1		
Nov	2.4	3.9	4.8	1.8	1.2		
Dec	2.4	4.0	4.7	1.6	1.4		
2019 Jan	2.2	4.2	5.2	1.0	1.4		
Feb	2.2	4.2	5.8	0.7	1.6		
Mar	2.4	4.7	6.3	0.6	1.7		
Apr	2.3	4.6	6.4	0.5	1.7		
May	2.0	3.9	5.8	0.3	1.6		
Jun	1.8	3.0	5.5	0.3	1.6		
Jul	1.8	2.1	5.5	0.5	1.7		
Aug	1.8	1.9	4.9	0.7	1.9		
Sep	1.7	1.8	4.1	0.7	1.9		
Oct	1.5	1.8	3.3	0.6	1.9		
	1.3	1.0	2.8	0.4	1.9		
Nov							

The IOS output is designated as a National Statistic.
 Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".
 Estimates cannot be regarded as accurate to the last digit shown.

4 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
5 A complete run of data is available on the ONS website as a <u>Time series dataset</u>



#### IOS: Index of Services<sup>1</sup>

Chained volume indices of gross value  $\operatorname{added}^{2,3,4}$ 

seasonally adjusted 2016 = 100

			Industry sections (SIC200)	7)	
				Business	Govern
	Total	Distribution	Transport,	services	ment and
	service	hotels and	storage and	and	other
	industries	restaurants	communication	finance	services
Section	G-T	G and I	H and J	K-N	0-1
2016 weights	1000	167	135	426	272
Percentage change, late	est 3 months on previou	s 3 month:			
	S2BG	S2DH	KI7D	KI7K	KI75
2017 Dec	0.4	0.2	1.0	0.5	-0.2
2018 Jan	0.5	0.4	0.7	0.9	
Feb	0.5	0.4	0.3	0.8	0.
Mar	0.4	0.4	-0.1	0.7	0.3
Apr	0.3	0.4	-	0.3	0.2
May	0.5	1.1	0.8	0.4	0.4
Jun	0.8	1.9	1.4	0.3	0.4
Jul	0.9	2.6	1.6	0.4	0.4
Aug	0.8	2.0	1.7	0.3	0.4
Sep	0.7	1.2	2.0	0.2	0.4
Oct	0.6	0.2	2.3	0.2	0.4
Nov	0.6	0.4	1.9	0.3	0.4
Dec	0.5	0.5	1.2	0.3	0.4
2019 Jan	0.4	1.0	1.2	-	0.3
Feb	0.3	0.7	1.3	-0.2	0.4
Mar	0.4	1.1	1.5	-0.3	0.5
Apr	0.4	0.7	1.1	-0.1	0.5
May	0.3	0.7	0.7	-0.1	0.4
Jun	0.2	0.2	0.7	-	0.4
Jul	0.4	0.2	0.7	0.4	0.4
Aug	0.6	0.2	0.8	0.7	0.3
Sep	0.5	-	0.7	0.6	0.0
Oct	0.3	-0.1	0.2	0.3	0.0
Nov	-	-0.3	-0.1	-	0.4
Dec	0.1	-0.4	-0.1	0.2	0.3

The IOS output is designated as a National Statistic.
 Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".
 Estimates cannot be regarded as accurate to the last digit shown.
 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
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#### RIOS1 INS: Index of Services Revisions since previously published estimates

seasonally adjusted 2016 = 100

	Industry sections (SIC2007)						
	Total service	Distribution hotels and	Transport, storage and	Business services and	Govern- ment and other		
Postion	industries	restaurants	communication	finance	services		
Section	G-T	G and I	H and J	K-N	0-T		
2016 weights	1000	167	135	426	272		
0015	S2KU	S2MV	KI7B	KI7L	KI7T		
2015	-	-	-	-	-		
2016	-	-	-	-	-		
2017	-	-	-	-	-		
2018	-	-	-	-	-		
2019							
2017 Nov							
Dec	-	-	-	-	-		
2018 Jan	-	-	-	-	-		
Feb	-	-	-	-	-		
Mar	-	-	-	-	-		
Apr	-	-	-	-	-		
	-	-	-	-	-		
May	-	-	-	-	-		
Jun	-	-	-	-	-		
Jul	-	-	-	-	-		
Aug	-	-	-	-	-		
Sep	-	-	-	-	-		
Oct	-	-	-	-	-		
Nov	-	-	-	-	-		
Dec	-		-	-	-		
2019 Jan	-	-0.1	-	-	0.1		
Feb	-	-0.2	0.2	-0.1	-		
Mar	0.1	-0.1	0.3	0.1	-		
Apr	-	-	0.2	-	-0.1		
May	-	-0.1	0.2	0.1	-0.1		
Jun	0.2	-0.1	0.4	0.1	-		
Jul	0.1	-0.1	0.5	0.3	-		
Aug	0.1	-0.2	0.3	0.2	0.1		
Sep	-	-0.3	0.3	-	0.2		
Oct	0.2	-0.1	0.3	0.2	0.2		
Nov	-	-0.1	-0.2		0.2		
Percentage change, lates							
	S222	S243	KI77	KI7G	KI7O		
2015	-	-	-	-	-		
2016	-	-	-	-	-		
2017	-	-	-	-	-		
2018	-	-	-	-	-		
2019							
ercentage change, lates	t month on same mon	ith a year ago					
	S26Q	S28R	KI7A	K171	KI7Q		
2017 Nov	-	-	-	-	-		
Dec	-	-	-	-	-		
2018 Jan	-	-	-	-	-		
Feb	-	-	-	-	-		
Mar	-	-	-	-	-		
Apr	-	-	-	-	-		
May	-	-	-	-	-		
Jun	-	-	-	-	-		
Jul	-	-	-	-	-		
Aug	-	-	-	-	-		
Sep	-	-	-	-	-		
Oct	-	-	-	-	-		
Nov	-	-	-	-	-		
Dec	-	-	-	-	-		
2019 Jan	-0.1	-0.2	-0.1		-		
Feb	-0.1	-0.2	0.1	-0.1	-		
Mar	-	-0.1	0.3	-	-		
Apr	0.1	-	0.2	0.1	-0.1		
May	-	-0.1	0.1	0.1			
Jun	0.1	-0.1	0.4	0.1	-		
Jul	0.1	-0.2	0.5	0.2	0.1		
Aug	0.1	-0.3	0.3	0.3	0.1		
		-0.2	0.3	-	0.2		
Sep	0.1	-0.2					
Sep Oct	0.1 0.1	-0.2	0.2	0.2	0.2		

The earliest period open for revision is January 2019



#### IOS: Index of Services Revisions since previously published estimates

seasonally adjusted 2016 = 100

	Industry sections (SIC2007)						
	Total service	Distribution hotels and	Transport, storage and	Business services and	Govern- ment and other		
	industries	restaurants	communication	finance	services		
Section	G-T	G and I	H and J	K-N	0-T		
2016 weights	1000	167	135	426	272		
Percentage change, late	st month on previou	s month					
· · · · · · · · · · · · · · · · · · ·	S222	S243	KI77	KI7G	KI7O		
2017 Nov		-	-	-	-		
Dec	-	-	-	-	-		
2018 Jan	-	-	-	-	-		
Feb	-	-	-	-	-		
Mar	-	-	-	-	-		
Apr	-	-	-	-	-		
May	-	-	-	-	-		
Jun	-	-	-	-	-		
Jul	-	-	-	-	-		
Aug	-	-	-	-	-		
Sep	-	-	-	-	-		
Oct	-	-	-	-	-		
Nov	-	-	-	-	-		
Dec	-	-	-	-	-		
2019 Jan	-	-0.1	-	-	-		
Feb	-	-	0.2	-	0.1		
Mar	0.1	0.2	0.2	0.2	-		
Apr	-	-	-	-	-0.1		
May	-	-0.2	-0.1	-	-		
Jun	0.1	0.1	0.3	-	0.1		
Jul	-	-0.1	0.1	0.1	-		
Aug	-	-0.1	-0.1	-	0.1		
Sep	-0.1	0.1	-	-0.2	0.1		
Oct	-	0.1	-	0.2	-		
Nov	-0.1	0.1	-0.4	-0.1	-		
Percentage change, late	st 3 months on same	a 3 months a year a	go				
	S2G6	S2I7	KI7C	KI7J	KI7R		
2017 Nov	-	-	-	-	-		
Dec	-	-	-	-	-		
2018 Jan	-	-	-	-	-		
Feb	-	-	-	-	-		
Mar	-	-	-	-	-		
Apr	-	-	-	-	-		
May	-	-	-	-	-		
Jun	-	-	-	-	-		
Jul	-	-	-	-	-		
Aug	-	-	-	-	-		
Sep	-	-	-	-	-		
Oct	-	-	-	-	-		
Nov	-	-	-	-	-		
Dec 2010 Jan	-	-	-	-	-		
2019 Jan	-	-0.1	-	-	-		
Feb	-0.1	-0.1		-0.1	0.1		
Mar	-	-0.1	0.1	-	-		
Apr	-		0.2		-		
May	-	-	0.2	0.1	-0.1		
Jun	-	-	0.2	0.1	-0.1		
Jul	0.1	-0.1	0.3	0.1	-		
Aug	0.1	-0.2	0.4	0.2	0.1		
Sep	0.1	-0.2	0.3	0.2	0.1		
Oct	0.1	-0.2	0.2	0.1	0.2		
Nov	0.1	-0.2	0.1	0.1	0.2		

The earliest period open for revision is January 2019



#### IOS: Index of Services Revisions since previously published estimates

seasonally adjusted 2016 = 100

			Industry sections (SIC2007	7)	
				Business	Govern
	Total	Distribution	Transport,	services	ment and
	service	hotels and	storage and	and	other
	industries	restaurants	communication	finance	services
Section	G-T	G and I	H and J	K-N	0-1
2016 weights	1000	167	135	426	272
ercentage change, late	est 3 months on previous	s 3 months			
	S2BG	S2DH	KI7D	KI7K	KI75
2017 Nov	-	-	-	-	
Dec	-	-	-	-	
2018 Jan	-	-	-	-	
Feb	-	-	-	-	
Mar	-	-	-	-	
Apr	-	-	-	-	
May	-	-	-	-	
Jun	-	-	-	-	
Jul	-	-	-	-	
Aug	-	-	-	-	
Sep	-	-	-	-	
Oct	-	-	-	-	
Nov	-	-	-	-	
Dec	-	-	-	-	
2019 Jan	-	-	-	-	
Feb	-0.1	-0.1	-	-	
Mar	-	-0.1	0.2	-0.1	
Apr	-	-0.1	0.2	-	
May	-	0.1	0.1	-	-0.1
Jun	-	0.1	0.2	0.1	
Jul	0.1	-	0.1	0.2	
Aug	0.1	-0.1	0.2	0.2	0.2
Sep	-	-0.2	0.1	0.1	0.1
Oct	-	-0.1	-0.1	-	0.2
Nov	-0.1	-	-0.2	-0.1	0.2

The earliest period open for revision is January 2019

IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

		Wholesale	Industry components (S		
		and retail trade	Wholesale	Retail trade,	
	Wholesale.	and repair of	trade, except of	except of	
	retail and	motor vehicles	motor vehicles	motor vehicles	Transportation
	motor trades	and motorcycles	and motorcycles	and motorcycles	and storage
Component	G	45	46	47	and storage
2016 weights	131	21	40	66	5
ge	S2KV	S2KW	S2KX	S2KY	S2K
2015	95.9	91.5	99.0	95.5	101.
2016	100.0	100.0	100.0	100.0	100.
2017	102.5	101.8	103.5	102.0	101.
2018	105.7	101.3	109.7	104.5	103.
2019	108.7	103.0	112.8	107.7	106.
2017 Dec	102.9	100.8	104.5	102.4	101.
2018 Jan	103.4	102.7	105.2	102.4	102.
Feb	103.8	101.2	106.5	102.9	101.
Mar	103.0	101.2	106.6	101.5	100.
	103.0				
Apr		101.0	107.4	103.0	101.
May	106.2	102.5	109.3	105.3	103.
Jun	106.0	101.1	110.3	104.7	104.
Jul	107.2	101.3	112.8	105.3	104.
Aug	107.1	102.0	111.2	105.9	104.
Sep	106.3	98.4	111.5	105.4	104.
Oct	106.9	101.5	111.9	105.3	105.
Nov	107.8	101.6	112.7	106.6	105.
Dec	106.6	101.4	110.6	105.7	105.
2019 Jan	108.1	103.1	112.6	106.7	106.
Feb	108.1	102.6	112.5	107.0	106.
Mar	108.8	102.8	112.5	107.0	106.
Apr	108.9	103.6	112.7	108.0	106.
May	109.0	103.3	114.0	107.5	105.
Jun	108.5	103.3	111.2	108.3	105.4
Jul	108.9	102.1	112.4	108.7	107.
Aug	109.2	103.7	113.1	108.3	105.
Sep	109.0	101.9	113.7	108.1	105.
Oct	109.4	103.1	114.4	108.1	106.
Nov	108.4	103.1	112.7	107.3	105.
Dec	107.9	103.7	111.9	106.6	106.
Percentage change, lates	t vear on previous vear				
	S223	S224	S225	S226	S22
2015	3.9	8.8	2.0	3.8	0.
2016	4.2	9.3	1.0	4.8	-1.3
2017	2.5	1.8	3.5	2.0	1.3
2018	3.2	-0.5	5.9	2.5	1.3
2019	2.8	1.8	2.9	3.1	2.
Percentage change, lates	t month on same month	a year ago			
• • •	S26R	S26S	S26T	S26U	S26
2017 Dec	0.6	-2.9	0.1	1.9	2.
2018 Jan	2.0	1.5	2.8	1.6	0.
Feb	2.0	0.6	3.6	1.4	-0.
Mar	0.9	-5.5	4.3	0.8	-1.
Apr	1.9	1.8	4.1	0.5	0.
May	4.4	1.5	6.6	3.7	1.
Jun	3.2	-0.7	5.5	2.9	3.
Jul	4.8	-0.8	9.2	3.6	2.
Aug	4.0	-0.6	7.5	3.2	2.
Sep	3.1	-4.9	7.1	3.0	2.
Oct	3.7	0.2	7.2	2.5	2.
Nov	4.4	0.8	7.4	3.4	3.
Dec	4.4 3.7	0.8	5.8	3.4	3.
2019 Jan			5.8 7.0	3.2 4.2	3.
	4.5	0.4	1.0		
Feb	4.1	1.4	5.7	3.9	4.
Mar	5.6	2.5	5.6	6.5	5.
Apr	4.5	2.5	4.9	4.9	4.
May	2.7	0.8	4.3	2.1	2.
Jun	2.3	2.2	0.8	3.4	1.
Jul	1.6	0.8	-0.3	3.2	3.
Aug	2.0	1.7	1.7	2.2	1.
Sep	2.5	3.5	2.0	2.6	1.
Oct	2.4	1.6	2.2	2.7	1.
			2.2		
Nov					
Nov Dec	0.5 1.2	1.5 2.3	- 1.1	0.6 0.9	-0.: 1.

1 Indices reflect values measured at basic prices, which exclude "taxes less

Indices reflect values measured at basic prices, which exclude 'taxes less subsidies on products'.
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IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

	Industry components (SIC2007)							
		Wholesale						
		and retail trade	Wholesale	Retail trade,				
	Wholesele							
	Wholesale,	and repair of	trade, except of	except of	-			
	retail and	motor vehicles	motor vehicles	motor vehicles	Transportation			
	motor trades	and motorcycles	and motorcycles	and motorcycles	and storage			
Component	G	45	46	47	Н			
2016 weights	131	21	44	66	52			
Percentage change, late:	st month on previous mo							
	S223	S224	S225	S226	S227			
2017 Dec	-0.5	-	-0.4	-0.6	0.1			
2018 Jan	0.5	1.8	0.7	0.1	0.3			
Feb	0.4	-1.4	1.2	0.5	-0.8			
Mar	-0.8	-0.9	0.1	-1.3	-0.5			
Apr	1.1	0.7	0.8	1.4	0.9			
May	1.9	1.4	1.7	2.2	1.2			
Jun	-0.1	-1.3	1.0	-0.6	0.9			
Jul	1.1	0.2	2.2	0.6	0.2			
Aug	-0.1	0.6	-1.4	0.5	0.3			
Sep	-0.7	-3.5	0.3	-0.5	0.1			
Oct	0.5	3.2	0.4	-0.1	0.7			
Nov	0.9	0.1	0.7	1.3	0.2			
Dec	-1.1	-0.2	-1.9	-0.9	0.1			
2019 Jan	1.4	1.7	1.8	1.0	0.3			
Feb	-	-0.5	-	0.2				
Mar	0.6	0.2	-	1.1	0.6			
Apr	0.1	0.7	0.1	-0.2	-			
May	0.1	-0.3	1.1	-0.5	-0.8			
Jun	-0.5	0.1	-2.4	0.7	-0.3			
Jul	0.4	-1.2	1.1	0.4	1.8			
Aug	0.2	1.6	0.6	-0.4	-1.3			
Sep	-0.2	-1.8	0.6	-0.2	-0.3			
Oct	0.4	1.2	0.6	-	1.2			
Nov	-0.9	-	-1.5	-0.8	-1.5			
Dec	-0.5	0.6	-0.7	-0.6	1.4			
ercentage change, lates	st 3 months on same 3 m		6000	COC 4	000D			
0017 0	S2G7	S2G8	S2G9	S2GA	S2GB			
2017 Dec	1.2	-1.2	2.3	1.2	2.0			
2018 Jan	1.4	-0.4	2.0	1.5	1.7			
Feb	1.5	-0.3	2.2	1.6	0.7			
Mar	1.7	-1.2	3.6	1.3	-0.5			
Apr	1.6	-1.1	4.0	0.9	-0.7			
May	2.4	-0.8	5.0	1.7	-			
Jun	3.2	0.9	5.4	2.4	1.5			
	3.2 4.1	0.9	7.1	3.4	2.4			
Jul								
Aug	4.0	-0.7	7.4	3.2	2.9			
Sep	4.0	-2.1	7.9	3.3	2.7			
Oct	3.6	-1.8	7.3	2.9	2.8			
Nov	3.7	-1.3	7.2	3.0	3.0			
Dec	3.9	0.5	6.8	3.0	3.3			
2019 Jan	4.2	0.6	6.7	3.6	3.6			
Feb	4.1	0.8	6.2	3.8	3.9			
Mar	4.8	1.4	6.1	4.9	4.6			
Apr	4.7	2.1	5.4	5.1	5.0			
May	4.2	1.9	4.9	4.5	4.3			
Jun	3.2	1.8	3.3	3.5	2.9			
Jul	2.2	1.3	1.6	2.9	2.4			
Aug	1.9	1.6	0.7	2.9	2.0			
Sep	2.0	2.0	1.1	2.5	1.8			
Oct	2.3	2.3	2.0	2.5	1.3			
Nov	1.8	2.2	1.4	2.0	0.7			
Dec	1.4	1.8	1.1	1.4	0.8			

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IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

		Industry components (SIC2007)							
		Wholesale							
		and retail trade	Wholesale	Retail trade,					
	Wholesale,	and repair of	trade, except of	except of					
	retail and	motor vehicles	motor vehicles	motor vehicles	Transportatior				
	motor trades	and motorcycles	and motorcycles	and motorcycles	and storage				
Component	G	45	46	47	ŀ				
2016 weights	131	21	44	66	52				
Percentage change, lates	st 3 months on previous 3	months							
• • •	S2BH	S2BI	S2BJ	S2BK	S2BI				
2017 Dec	0.3	-1.7	1.0	0.5	0.4				
2018 Jan	0.2	-1.0	0.9	0.1					
Feb	0.2	-0.3	0.9	-0.1	-0.2				
Mar	0.3	0.4	1.4	-0.4	-0.				
Apr	0.5	-0.6	1.8	-0.1	-0.				
May	1.0	-0.3	2.2	0.7					
Jun	1.9	0.1	2.8	2.0	1.4				
Jul	2.7	0.8	3.7	2.6	2.				
Aug	2.2	0.2	3.4	2.0	2.				
Sep	1.4	-1.0	2.6	1.2	1.4				
Oct	0.3	-1.0	0.7	0.4	1.				
Nov	0.2	-1.0	0.5	0.4	0.				
Dec	0.2	0.9	-0.1	0.3	1.				
2019 Jan	0.7	1.4	0.4	0.8	0.				
Feb	0.6	1.9	-0.1	0.7	0.				
Mar	1.1	1.3	0.7	1.4	0.				
Apr	1.0	1.0	0.5	1.3	0.				
May	1.2	0.8	1.0	1.3	0.				
Jun	0.4	0.5	0.1	0.6	-0.				
Jul	0.2	-0.1	-	0.4	-0.				
Aug	-	-0.1	-0.7	0.5	-0.				
Sep	0.2	-0.8	0.4	0.4	0.				
Oct	0.4	-	1.1	-	-0.				
Nov	0.1	-0.4	1.2	-0.5	-0.				
Dec	-0.4	0.7	-0.1	-1.0					

1 Indices reflect values measured at basic prices, which exclude "taxes less

Induces relief values interaction of basic prices, which exclude takes less subsidies on products".
 Estimates cannot be regarded as accurate to the last digit shown.
 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
 A complete run of data is available on the ONS website as a <u>Time series dataset</u>

# IOSCOMP IOS: Index of Services Chained volume indice

Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

	Industry components (SIC2007)					
		Land transmost			Warehousin	
		Land transport,			and suppo	
	Rail transport	excluding	Water transport	Air transport	activities fo transportatio	
ampapant	49.1-2	rail transport	Water transport 50	Air transport 51		
Component 016 weights	49.1-2	49.3-5 17	<u> </u>	3	5	
oro weights	S2L2	S2L3	S2L4	S2L5	S2L	
2015	99.3	98.0	110.9	93.2	104.	
2016	100.0	100.0	100.0	100.0	100.	
2017	102.2	98.2	95.0	106.0	103.	
2018	102.2	97.0	94.1	114.8	103.	
2018	103.4	101.0	91.2	114.7	107.	
2019	107.1	101.0	51.2	114.7		
2017 Dec	101.4	96.3	93.0	104.3	106.	
2018 Jan	101.1	97.5	93.3	103.4	107.	
Feb	101.3	95.1	93.7	103.3	107.	
Mar	101.9	94.6	93.9	104.0	105.	
Apr	102.8	95.2	93.9	111.8	106.	
May	103.6	95.3	94.1	114.9	107.	
Jun	104.1	95.4	94.4	117.6	109.	
Jul	104.4	96.5	94.7	118.7	109.	
Aug	104.4	97.6	94.9	121.2	108.	
Sep	104.3	98.4	94.6	121.7	107.	
Oct	104.3	98.0	94.2	121.5	109	
Nov	104.4	99.4	93.8	119.2	109	
Dec	104.7	100.9	93.6	120.4	108	
2019 Jan	105.0	100.1	92.8	119.0	110	
Feb	105.4	100.5	92.1	117.4	111.	
Mar	106.1	100.9	91.5	123.7	110	
Apr	106.8	102.2	90.9	115.0	110	
May	107.3	101.9	90.3	113.3	109	
Jun	107.4	101.5	89.8	112.9	110.	
Jul	107.3	102.8	89.5	111.9	112.	
Aug	107.3	101.0	89.8	112.5	111.	
Sep	107.6	100.2	90.7	112.3	111.	
Oct	107.9	101.4	91.8	112.6	112.	
Nov	108.3	99.3	92.4	112.9	110.	
Dec	108.5	100.4	92.2	113.1	112.	
200	100.0		02.2			
ercentage change, l	atest year on previous yea		0004	0005	0.00	
	S228	S229	S22A	S22B	S22	
2015	1.5	4.5	-14.6	2.2	0.	
2016	0.7	2.0	-9.9	7.3	-4.	
2017	2.2	-1.8	-5.0	6.0	3.	
2018	1.2	-1.3	-1.0	8.3	4	
2019	3.5	4.1	-3.1	-0.1	3	
ercentage change, la	atest month on same mon S26W	th a year ago S26X	S26Y	S26Z	S27	
2017 Dec	-0.3	-4.5	-4.7	4.4	5	
2018 Jan	-2.0	-3.1	-3.6	1.3	5	
Feb	-2.4	-5.5	-3.1	0.1	4	
Mar	-1.3	-6.3	-3.3	-0.4	2	
Apr	0.9	-3.9	-1.6	3.4	2	
May	2.5	-2.9	-1.9	6.4	4	
	2.8	0.4	-1.5	8.7	7	
Jun		0.4		8.6	7	
Jun		10		0.0		
Jul	2.4	-1.0	-0.4	44.0		
Jul Aug	2.4 1.6	-0.2	0.6	14.0		
Jul Aug Sep	2.4 1.6 1.5	-0.2 0.2	0.6 1.2	13.4	3	
Jul Aug Sep Oct	2.4 1.6 1.5 2.3	-0.2 0.2 0.4	0.6 1.2 0.4	13.4 14.7	3 3	
Jul Aug Sep	2.4 1.6 1.5	-0.2 0.2	0.6 1.2	13.4	3. 3.	
Jul Aug Sep Oct	2.4 1.6 1.5 2.3	-0.2 0.2 0.4	0.6 1.2 0.4	13.4 14.7	3. 3. 4.	
Jul Aug Sep Oct Nov Dec	2.4 1.6 1.5 2.3 2.6 3.2	-0.2 0.2 0.4 2.6 4.8	0.6 1.2 0.4 0.9 0.6	13.4 14.7 13.6 15.5	3 3 4 1	
Jul Aug Sep Oct Nov Dec 2019 Jan	2.4 1.6 1.5 2.3 2.6 3.2 3.8	-0.2 0.2 0.4 2.6 4.8 2.6	0.6 1.2 0.4 0.9 0.6 -0.5	13.4 14.7 13.6 15.5 15.0	5 3 3 4 1 3 3 3	
Jul Aug Sep Oct Nov Dec 2019 Jan Feb	2.4 1.6 1.5 2.3 2.6 3.2 3.8 4.1	-0.2 0.2 0.4 2.6 4.8 2.6 5.7	0.6 1.2 0.4 0.9 0.6 -0.5 -1.7	13.4 14.7 13.6 15.5 15.0 13.6	3 3 4 1 3 3 3	
Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar	2.4 1.6 1.5 2.3 2.6 3.2 3.8 4.1 4.1	-0.2 0.2 0.4 2.6 4.8 2.6 5.7 6.7	0.6 1.2 0.4 0.9 0.6 -0.5 -1.7 -2.6	13.4 14.7 13.6 15.5 15.0 13.6 18.9	3 3 4 1 3 3 4	
Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr	2.4 1.6 1.5 2.3 2.6 3.2 3.8 4.1 4.1 3.9	-0.2 0.2 2.6 4.8 2.6 5.7 6.7 7.3	0.6 1.2 0.4 0.9 0.6 -0.5 -1.7 -2.6 -3.3	13.4 14.7 13.6 15.5 15.0 13.6 18.9 2.9	3 3 4 1 3 3 4 3 3 3	
Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May	2.4 1.6 1.5 2.3 2.6 3.2 3.8 4.1 4.1 3.9 3.5	-0.2 0.4 2.6 4.8 2.6 5.7 6.7 7.3 6.8	0.6 1.2 0.4 0.9 0.6 -0.5 -1.7 -2.6 -3.3 -4.0	13.4 14.7 13.6 15.5 15.0 13.6 18.9 2.9 -1.4	3 3 4 1 3 3 3 4 2 2	
Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr	2.4 1.6 1.5 2.3 2.6 3.2 3.8 4.1 4.1 3.9	-0.2 0.2 2.6 4.8 2.6 5.7 6.7 7.3	0.6 1.2 0.4 0.9 0.6 -0.5 -1.7 -2.6 -3.3	13.4 14.7 13.6 15.5 15.0 13.6 18.9 2.9	3 3 4 1 3 3 3 4 2 2	
Jul Aug Sep Oct Dec 2019 Jan Feb Mar Apr May Jun	2.4 1.6 1.5 2.3 2.6 3.2 3.8 4.1 4.1 3.9 3.5 3.1	-0.2 0.4 2.6 4.8 2.6 5.7 6.7 7.3 6.7 7.3 6.8 6.5	0.6 1.2 0.4 0.9 0.6 -0.5 -1.7 -2.6 -3.3 -4.0 -4.9	13.4 14.7 13.6 15.5 15.0 13.6 18.9 2.9 -1.4 -4.0	3 3 4 1 3 3 4 3 2 0	
Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jun	2.4 1.6 1.5 2.3 2.6 3.2 3.8 4.1 4.1 3.9 3.5 3.1 2.8	-0.2 0.2 0.4 2.6 5.7 6.7 7.3 6.8 6.5	$\begin{array}{c} 0.6 \\ 1.2 \\ 0.4 \\ 0.9 \\ 0.6 \\ -0.5 \\ -1.7 \\ -2.6 \\ -3.3 \\ -4.0 \\ -4.9 \\ -5.5 \end{array}$	13.4 14.7 13.6 15.5 15.0 13.6 18.9 2.9 -1.4 -4.0 -5.8	3 3 4 1. 3 3 4 3 2 0 0 3	
Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug	2.4 1.6 1.5 2.3 2.6 3.2 3.8 4.1 4.1 4.1 3.9 3.5 3.1 2.8 2.8	-0.2 0.4 2.6 4.8 2.6 5.7 6.7 7.3 6.8 6.5 6.5 6.5 6.5 3.5	$\begin{array}{c} 0.6\\ 1.2\\ 0.4\\ 0.9\\ 0.6\\ -0.5\\ -1.7\\ -2.6\\ -3.3\\ -4.0\\ -4.9\\ -5.5\\ -5.3\end{array}$	13.4 14.7 13.6 15.5 15.0 13.6 18.9 2.9 -1.4 -4.0 -5.8 -7.2	3 3 4 1 3 3 4 4 3 2 0 0 3 3 3	
Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug Sep	2.4 1.6 1.5 2.3 3.2 3.8 4.1 4.1 3.9 3.5 3.1 2.8 2.8 3.1	-0.2 0.4 2.6 4.8 2.6 5.7 6.7 7.3 6.7 6.7 6.8 6.5 6.5 6.5 3.5 3.5 1.8	$\begin{array}{c} 0.6\\ 1.2\\ 0.4\\ 0.9\\ 0.6\\ -0.5\\ -1.7\\ -2.6\\ -3.3\\ -4.0\\ -4.9\\ -5.5\\ -5.3\\ -5.1\end{array}$	13.4 14.7 13.6 15.5 15.0 13.6 18.9 2.9 -1.4 -4.0 -5.8 -7.2 -7.7	3 3 4 1 3 3 4 4 3 2 0 0 3 3 3 3 3 3	
Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug Sep Oct	2.4 1.6 1.5 2.3 2.6 3.2 3.8 4.1 4.1 3.9 3.5 3.1 2.8 2.8 2.8 3.1 3.5	-0.2 0.4 2.6 4.8 2.6 5.7 6.7 7.3 6.8 6.5 6.5 3.5 1.8 3.4	$\begin{array}{c} 0.6\\ 1.2\\ 0.4\\ 0.9\\ 0.6\\ -0.5\\ -1.7\\ -2.6\\ -3.3\\ -4.0\\ -4.9\\ -5.5\\ -5.3\\ -4.1\\ -2.6\end{array}$	13.4 14.7 13.6 15.5 15.0 13.6 18.9 2.9 -1.4 -4.0 -5.8 -7.2 -7.7 -7.3	3 3 4 1 3 3 4 3 2 0 3 3 3 2 2 0 3 3 2	
Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug Sep	2.4 1.6 1.5 2.3 3.2 3.8 4.1 4.1 3.9 3.5 3.1 2.8 2.8 3.1	-0.2 0.4 2.6 4.8 2.6 5.7 6.7 7.3 6.7 6.7 7.3 6.8 6.5 6.5 6.5 3.5 3.5 1.8	$\begin{array}{c} 0.6\\ 1.2\\ 0.4\\ 0.9\\ 0.6\\ -0.5\\ -1.7\\ -2.6\\ -3.3\\ -4.0\\ -4.9\\ -5.5\\ -5.3\\ -5.1\end{array}$	13.4 14.7 13.6 15.5 15.0 13.6 18.9 2.9 -1.4 -4.0 -5.8 -7.2 -7.7	3. 3. 4. 1.	

Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".
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 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
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IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

	Industry components (SIC2007)					
					Warehousing	
		Land transport,			and support	
		excluding			activities for	
	Rail transport	rail transport	Water transport	Air transport	transportation	
Component	49.1-2	49.3-5	50	51	52	
2016 weights	3	17	4	3	17	
2010 Holgino			•	•		
Percentage change, lates	t month on previous month	1				
0 07	S228	S229	S22A	S22B	S22C	
2017 Dec	-0.3	-0.6	-	-0.7	1.5	
2018 Jan	-0.3	1.3	0.3	-0.8	0.4	
Feb	0.1	-2.5	0.4	-0.1	-	
Mar	0.6	-0.6	0.2	0.7	-1.2	
Apr	0.9	0.6	0.1	7.5	0.5	
Mav	0.8	0.0	0.1	2.7	1.3	
Jun	0.5	-	0.3	2.4	2.0	
Jul	0.2	1.2	0.4	0.9	-0.7	
Aug	-	1.1	0.1	2.1	-0.8	
Sep	-0.1	0.8	-0.2	0.4	-0.5	
Oct	-	-0.4	-0.4	-0.2	1.4	
Nov	0.1	1.4	-0.4	-1.8	0.2	
Dec	0.3	1.5	-0.3	1.0	-1.0	
2019 Jan	0.3	-0.8	-0.8	-1.2	2.4	
Feb	0.4	0.0	-0.8	-1.3	0.2	
		0.4			-0.5	
Mar	0.6		-0.7	5.3		
Apr	0.7	1.2	-0.7	-7.0	-0.1	
May	0.5	-0.3	-0.6	-1.5	-0.4	
Jun	0.1	-0.3	-0.6	-0.3	0.3	
Jul	-0.1	1.2	-0.3	-0.9	2.2	
Aug	-	-1.7	0.3	0.6	-0.9	
Sep	0.2	-0.8	1.0	-0.2	-0.2	
Oct	0.4	1.2	1.2	0.3	0.7	
Nov	0.4	-2.0	0.7	0.3	-1.4	
Dec	0.2	1.1	-0.2	0.2	1.7	
ercentage change, lates	t 3 months on same 3 mon	ths a vear ago				
	S2GC	S2GD	S2GE	S2GF	S2GG	
2017 Dec	1.1	-4.2	-5.2	4.9	5.9	
2018 Jan	-0.4	-3.9	-4.6	3.9	5.4	
Feb	-1.6	-4.4	-3.8	1.9	5.0	
Mar	-1.9	-5.0	-3.3	0.3	4.1	
Apr	-0.9	-5.2	-2.7	1.0	3.3	
May	0.7	-4.4	-2.3	3.2	3.2	
Jun	2.1	-2.1	-1.7	6.2	4.6	
Jul	2.6	-1.2	-1.3	7.9	6.3	
Aug	2.3	-0.3	-0.5	10.4	6.9	
Sep	1.8	-0.3	0.4	12.0	5.8	
Oct	1.8	0.1	0.7	14.0	4.4	
Nov	2.1		0.7			
		1.1		13.9	3.8	
Dec	2.7	2.6	0.6	14.6	3.0	
2019 Jan	3.2	3.3	0.3	14.7	3.0	
Feb	3.7	4.3	-0.5	14.7	2.9	
Mar	4.0	5.0	-1.6	15.9	3.9	
Apr	4.0	6.6	-2.5	11.6	4.0	
May	3.8	7.0	-3.3	6.4	3.5	
Jun	3.5	6.9	-4.1	-0.9	2.1	
Jul	3.2	6.6	-4.8	-3.7	2.0	
Aug	2.9	5.5	-4.0	-5.7	2.0	
Sep	2.9	3.9	-5.0	-6.9	3.4	
Oct	3.1	2.9	-4.0	-7.4	3.2	
Nov	3.4	1.7	-2.7	-6.8	2.5	
Dec	3.6	0.9	-1.8	-6.2	2.7	

1 Indices reflect values measured at basic prices, which exclude "taxes less

a indices reliect values integrated at basic prices, which exclude taxes less subsidies on products".
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4 A complete run of data is available on the ONS website as a

Time series dataset

IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

		I	ndustry components (SIC	2007)	
					Warehousing
		Land transport,			and suppor
		excluding			activities for
	Rail transport	rail transport	Water transport	Air transport	transportatior
Component	49.1-2	49.3-5	50	51	52
2016 weights	3	17	4	3	17
Percentage change, late	st 3 months on previous 3 r	nonths			
	S2BM	S2BN	S2BO	S2BP	S2BC
2017 Dec	-0.7	-1.0	-1.1	-2.4	3.3
2018 Jan	-1.0	-1.0	-0.8	-2.2	2.5
Feb	-0.8	-1.3	-0.1	-2.3	2.2
Mar	-0.3	-1.2	0.4	-1.4	0.9
Apr	0.5	-2.0	0.8	2.1	0.1
May	1.5	-1.3	0.7	6.4	-0.4
Jun	2.0	-0.5	0.6	10.8	1.2
Jul	2.0	0.8	0.6	10.0	2.3
Aug	1.5	1.5	0.7	8.1	2.3
Sep	0.8	2.3	0.6	5.0	0.3
Oct	0.3	2.4	0.2	3.8	-0.5
Nov	-	2.2	-0.5	1.4	-0.3
Dec	0.1	1.9	-0.9	-0.1	0.6
2019 Jan	0.3	2.1	-1.2	-1.6	1.1
Feb	0.7	1.9	-1.5	-1.5	1.:
Mar	1.0	1.1	-1.9	-0.3	1.3
Apr	1.3	1.1	-2.1	-0.7	1.(
May	1.6	1.2	-2.1	-1.3	0.1
Jun	1.6	1.3	-2.0	-5.2	-0.5
Jul	1.2	0.9	-1.8	-5.1	0.3
Aug	0.6	0.1	-1.3	-4.2	1.1
Sep	0.2	-0.5	-0.3	-1.3	1.0
Oct	0.3	-1.2	1.0	-0.2	0.1
Nov	0.5	-1.5	2.2	0.2	-0.1
Dec	0.8	-1.0	2.3	0.6	-0.1

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IOS: Index of Services Chained volume indices of gross value added <sup>1,2,3</sup>

seasonally adjusted 2016 = 100

			Inductory companyante (010	2007)	
			Industry components (SIC	Food and	
	Postal and courier	Accommodation and food		beverage service	Information and
	activities	services	Accommodation	activities	communication
Component	53		55	56	J
2016 weights	8	35	11	25	83
	S2L7	S2L8	S2L9	S2LA	S2LB
2015	101.8	98.5	96.6	99.4	94.8
2016	100.0	100.0	100.0	100.0	100.0
2017	108.0	102.4	100.9	103.0	104.8
2018 2019	109.4 111.2	104.9 106.6	106.1 108.5	104.3 105.8	110.1 116.6
2019	111.2	100.0	100.5	105.0	110.0
2017 Dec	108.6	102.6	101.7	103.1	108.1
2018 Jan	107.5	103.6	102.9	103.8	107.3
Feb	107.1	102.1	101.2	102.5	106.2
Mar	107.1	103.0	104.7	102.3	108.2
Apr	106.6	104.0	104.6	103.7	108.6
May	109.9	104.7	106.1	104.1	108.8
Jun	110.0	105.3	107.6	104.3	109.0
Jul	109.4	105.9	109.6	104.3	109.1
Aug	109.7	104.7	105.7	104.3	111.8
Sep	110.0	105.1	105.4	104.9	113.3
Oct	113.0	106.3	107.5	105.8	112.1
Nov	111.8	107.2	108.6	106.7	112.9
Dec	111.0	106.8	109.8	105.5	113.8
2019 Jan	110.6	107.8	110.5	106.6	115.0
Feb	110.3	108.0	110.6	106.9	115.3
Mar	112.2	106.9	110.0	105.6	115.0
Apr	113.5	106.3	108.4	105.4	116.3
May	110.4	106.0	105.9	106.0	115.9
Jun	108.4	108.7	111.4	107.6	117.3
Jul	113.9	107.3	108.4	106.8	117.9
Aug	110.0	107.0	108.5	100.0	116.5
Sep	109.7	105.0	108.6	104.5	118.0
Oct	113.0	103.0	106.3	103.4	118.0
Nov	109.6	104.8	107.6	104.2	115.9
Dec	113.2	106.1	105.4	105.0	117.7
			100.1	10010	
Percentage change, latest ye	ear on previous yea S22D	r S22E	S22F	S22G	S22H
2015	2.1	4.4	10.8	1.9	5.6
2016	-1.8	1.5	3.5	0.6	5.4
2017	8.0	2.4	0.9	3.0	4.8
2018	1.3	2.5	5.2	1.3	5.1
2019	1.7	1.6	2.2	1.4	5.9
Deveentere chemine letest m					
Percentage change, latest m	S273	tn a year ago S274	S275	S276	S277
2017 Dec	15.6	1.9	0.6	2.4	5.1
2018 Jan	2.5	2.1	1.8	2.2	6.1
Feb	-0.1	-0.9	0.8	-1.7	4.7
Mar	0.6	0.9	4.5	-0.6	5.9
Apr	2.6	0.5	2.2	-0.2	4.5
May	2.3	1.8	5.0	0.5	4.7
Jun	1.1	3.6	8.0	1.8	2.4
Jul	-0.2	1.8	6.7	-0.3	4.1
Aug	-0.6	2.4	5.3	1.2	5.9
Sep	1.2	3.9	5.3	3.3	6.5
Oct	2.6	4.5	7.1	3.5	5.1
Nov	1.8	4.9	7.5	3.9	5.9
Dec	2.2	4.0	8.0	2.4	5.3
2019 Jan	3.0	4.0	7.4	2.4	7.1
Feb	3.0	5.8	9.4	4.3	8.5
Mar	4.7	3.8	5.1	3.2	6.0
Apr	6.5	2.3	3.6	1.7	7.1
May	0.4	1.2	-0.2	1.8	6.5
May			3.5	3.1	7.6
Jun	-1.4	3.3			
Jun Jul	4.1	1.3	-1.2	2.4	
Jun Jul Aug	4.1 0.2	1.3 1.2	2.6	0.6	4.2
Jun Jul Aug Sep	4.1 0.2 -0.2	1.3 1.2 -0.1	2.6 3.0	0.6 -1.4	4.2 4.2
Jun Jul Aug Sep Oct	4.1 0.2 -0.2 -0.1	1.3 1.2 -0.1 -1.4	2.6 3.0 -1.1	0.6 -1.4 -1.5	4.2 4.2 5.3
Jun Jul Aug Sep	4.1 0.2 -0.2	1.3 1.2 -0.1	2.6 3.0	0.6 -1.4	8.1 4.2 4.2 5.3 2.7 3.4

Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".
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# IOSCOMP IOS: Index of Services Chained volume indice

Chained volume indices of gross value added <sup>1,2,3</sup>

seasonally adjusted 2016 = 100

			Industry components (SI	C2007)	
				Food and	
	Postal	Accommodation		beverage	
	and courier	and food		service	Information and
	activities	services	Accommodation	activities	communication
Component	53	Services	55	56	communication
	8	35	11	25	
2016 weights	0	30		20	83
ercentage change, late	st month on previous m				
• • •	- S22D	S22E	S22F	S22G	S22F
2017 Dec	-1.1	0.4	0.6	0.3	1.5
2018 Jan	-1.1	0.9	1.2	0.8	-0.7
Feb	-0.4	-1.4	-1.7	-1.3	-1.(
Mar	-	0.9	3.5	-0.2	1.8
Apr	-0.5	0.9	-	1.3	0.4
May	3.1	0.7	1.4	0.4	0.3
Jun	0.1	0.6	1.4	0.2	0.1
Jul	-0.5	0.6	1.9	-	0.1
Aug	0.3	-1.2	-3.6	-	2.5
Sep	0.2	0.4	-0.2	0.7	1.3
Oct	2.8	1.1	1.9	0.8	-1.1
Nov	-1.1	0.9	1.0	0.8	0.7
Dec	-0.8	-0.4	1.1	-1.1	0.9
2019 Jan	-0.3	0.9	0.7	1.0	1.0
Feb	-0.3	0.3	0.1	0.3	0.3
Mar	1.7	-1.0	-0.6	-1.2	-0.2
Apr	1.2	-0.6	-1.4	-0.2	1.1
May	-2.8	-0.3	-2.3	0.6	-0.3
Jun	-1.8	2.6	5.2	1.5	1.2
Jul	5.1	-1.3	-2.8	-0.7	0.5
Aug	-3.4	-1.2	0.1	-1.8	-1.2
Sep	-0.2	-0.9	0.1	-1.4	1.3
Oct	-0.2 3.0	-0.3	-2.2	0.8	1.0
Nov	-3.0	1.3	1.3	1.3	-1.7
Dec	3.2	-	-2.1	0.9	1.5
200	0.2			0.0	
Percentage change, late	st 3 months on same 3				
	S2GH	S2GI	S2GJ	S2GK	S2GL
2017 Dec	11.0	1.5	0.1	2.1	4.5
2018 Jan	9.4	1.7	0.7	2.2	5.2
Feb	5.6	1.0	1.1	0.9	5.3
Mar	1.0	0.7	2.4	-	5.6
Apr	1.0	0.2	2.5	-0.8	5.0
May	1.8	1.1	3.9	-0.1	5.0
Jun	2.0	2.0	5.1	0.7	3.9
Jul	1.1	2.4	6.6	0.6	3.7
Aug	0.1	2.6	6.7	0.9	4.2
Sep	0.1	2.7	5.8	1.4	5.5
Oct	1.1	3.6	5.9	2.7	5.8
Nov	1.9	4.5	6.6	3.5	5.8
Dec	2.2	4.5	7.5	3.2	5.5
2019 Jan	2.3	4.3	7.6	3.0	6.1
Feb	2.7	4.6	8.2	3.1	7.0
Mar	3.6	4.6	7.3	3.4	7.3
Apr	4.7	4.0	6.0	3.1	7.3
May	3.8	2.4	2.8	2.3	6.6
Jun	1.8	2.3	2.3	2.2	7.1
Jul	1.0	1.9	0.7	2.5	7.4
Aug	0.9	1.9	1.6	2.5	6.6
Sep	1.4	0.8	1.5	0.5	5.4
Oct	1.4	-0.1	1.5	-0.8	4.5
Nov	-0.7	-0.1	0.3	-0.8	4.0
Dec	-0.7	-0.8	-2.0	-0.5	4.0
Dec	-	-1.0	-2.0	-0.5	3.8

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IOS: Index of Services Chained volume indices of gross value added <sup>1,2,3</sup>

seasonally adjusted 2016 = 100

			Industry components (SIC	2007)	
				Food and	
	Postal	Accommodation		beverage	
	and courier	and food		service	Information an
	activities	services	Accommodation	activities	communicatio
Component	53		55	56	
2016 weights	8	35	11	25	8
Percentage change, latest	3 months on previous 3	months			
· · · · · · · · · · · · · · · · · · ·	S2BR	S2BS	S2BT	S2BU	S2B
2017 Dec	-	-0.3	-0.1	-0.4	1.
2018 Jan	-1.0	1.1	1.6	0.9	1.
Feb	-1.7	1.1	1.4	0.9	0.
Mar	-2.1	0.7	1.9	0.2	0.
Apr	-1.6	0.2	1.6	-0.4	0.
May	0.1	1.1	3.2	0.2	1.
Jun	1.5	1.7	3.1	1.1	1.
Jul	2.7	2.2	4.2	1.4	1.
Aug	1.7	1.4	2.4	0.9	1.
Sep	0.8	0.5	0.7	0.5	2.
Oct	1.1	-	-1.5	0.7	3.
Nov	1.7	0.9	-0.5	1.5	2.
Dec	2.0	1.5	1.6	1.4	1.
2019 Jan	0.2	1.8	3.2	1.2	1.
Feb	-0.9	1.2	2.9	0.5	1.
Mar	-0.8	0.8	1.6	0.4	1.
Apr	0.7	-0.2	-	-0.3	1.
May	1.2	-1.0	-2.0	-0.6	0.
Jun	-0.3	-0.5	-1.6	-	1.
Jul	-1.0	0.2	-1.0	0.8	1
Aug	-1.1	0.9	1.2	0.7	1
Sep	0.4	-0.9	-0.1	-1.2	0.
Oct	-	-1.9	-0.7	-2.5	0.
Nov	-	-1.9	-1.8	-1.9	0.
Dec	0.7	-0.3	-1.9	0.3	-0.

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IOS: Index of Services Chained volume indices of gross value added <sup>1,2,3</sup>

seasonally adjusted 2016 = 100

ontinued			Industry components (SIC20	07)	
		Motion pictures,			Computer
	Publishing	tv production, sound and music activities	Programming and broadcasting	Telecom	programming, consultancy and
Component	activities 58	59	activites 60	-munications 61	related activities 62
2016 weights	8	8	6	23	32
	S2LC	S2LD	KFV8	S2LE	S2LF
2015	98.4	91.3	89.0	104.4	89.2
2016 2017	100.0 96.4	100.0 112.9	100.0 99.3	100.0 100.3	100.0 108.7
2018	94.8	120.6	99.6	100.3	118.0
2019	97.6	140.1	102.8	99.2	126.2
2017 Dec	95.4	121.8	101.6	101.2	112.8
2018 Jan	93.6	117.0	102.0	100.9	113.5
Feb	95.0	114.6	98.4	100.9	111.0
Mar	96.8	119.4	101.3	100.6	113.9
Apr	95.5	119.7 119.1	98.4 99.2	101.1 101.5	114.9
May Jun	95.2 93.2	116.0	99.2	101.5	115.3 118.0
Jul	92.5	117.8	99.2	100.1	116.9
Aug	96.1	120.7	98.9	102.2	120.9
Sep	94.0	131.6	100.5	103.0	122.1
Oct	92.4	124.0	99.9	100.5	122.5
Nov	95.6	124.4	97.3	101.5	122.8
Dec	97.4	123.1	100.6	101.7	124.8
2019 Jan Feb	99.6 98.7	128.1 131.7	100.4 98.9	100.2 98.9	125.4 125.9
Mar	97.4	131.7	100.2	101.4	125.9
Apr	97.5	136.9	100.2	99.2	127.2
May	99.9	135.8	101.0	97.7	126.2
Jun	101.0	140.1	102.3	98.4	128.0
Jul	100.0	142.6	104.4	99.0	127.8
Aug	99.6	140.6	101.1	99.0	125.8
Sep	95.9	147.9	104.1	99.9	126.9
Oct Nov	94.8 92.1	151.0	105.5 105.0	100.6	125.7
Dec	94.9	141.6 153.3	107.5	98.8 97.7	125.2 126.7
Percentage change, latest	vear on previous vear				
	S221	S22J	KFV7	S22K	S22L
2015 2016	-5.9 1.7	28.7 9.6	1.7 12.4	3.8 -4.3	5.2 12.1
2018	-3.6	12.9	-0.7	-4.3	8.7
2017	-3.0	6.8	0.3	0.9	8.6
2019	3.0	16.1	3.2	-2.0	6.9
Percentage change, latest					
2017 Dec	S278 -8.1	S279 10.5	KFJ4 1.5	S27A 0.9	S27B 9.8
2018 Jan	-5.3	13.7	5.1	-1.2	12.2
Feb	-1.2	9.8	-0.3	0.4	7.1
Mar	1.6	5.3	5.5	2.4	8.3
Apr	0.7	9.0	-1.0	-0.9	7.6
May	1.3	3.5	-2.5	2.0	7.9
Jun Jul	-6.1 -5.4	-2.9 11.5	-0.1 4.7	-0.6 -0.5	7.0 5.9
Aug	-5.4	5.3	-3.7	-0.5 2.7	9.7
Sep	-2.5	12.0	-0.4	3.7	9.2
Oct	-5.2	9.1	-3.3	1.5	8.6
Nov	-	6.5	1.6	1.6	9.0
Dec	2.1	1.1	-0.9	0.5	10.7
2019 Jan	6.5	9.5	-1.6	-0.7	10.6
Feb	3.9	14.9	0.5	-1.9	13.5
Mar Apr	0.7 2.0	9.8 14.3	-1.1 4.3	0.7 -1.8	8.9 10.7
May	4.9	14.0	1.9	-3.7	9.4
Jun	8.4	20.8	3.3	-1.7	8.5
Jul	8.2	21.1	5.2	-2.2	9.3
Aug	3.6	16.5	2.3	-3.1	4.1
Sep	2.0	12.4	3.6	-3.0	4.0
Oct	2.6	21.7	5.6	-	2.6
Nov Dec	-3.7 -2.6	13.9 24.5	7.9 6.9	-2.6 -4.0	2.0 1.5

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IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

Notion pictures, ty production, activities         Programming and broadcasting         Compute munications         Compute programming munications           Component         8         5         6         6         1         52           2010 weights         8         5         6         6         1         52           2010 weights         8         5         6         6         1         52           2010 weights         92         52         S221         KFV7         S22K         S221           2017 Dec         -0.2         4.3         6.1         1.4         0.1           2017 Dec         -0.2         4.3         6.1         1.4         0.1           Apr         -1.3         0.3         2.8         0.4         1.0           May         -0.4         -0.5         0.8         0.4         0.3           Jul         -0.7         1.6         0.2         1.2         0.9           Jul         -0.7         1.6         0.2         1.2         0.9           Jul         -0.7         1.6         0.2         1.2         0.9           Jul         -0.7         1.6         0.2         1.5         0.5 <th></th> <th></th> <th></th> <th>Industry components (SIC200</th> <th>7)</th> <th></th>				Industry components (SIC200	7)	
Publishing         Programming activities           2017 Dace         5         0.2         1.1         0.4         0.1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
Publishing         Programming activities           2017 Dace         5         0.2         1.1         0.4         0.1 <th></th> <th></th> <th>Motion pictures</th> <th></th> <th></th> <th>Computer</th>			Motion pictures			Computer
Publishing activities         and broadcasting activities         Telecom activities         consultancy and related activities           Component         58         59         60         61         consultancy related activities           2016 weights         8         6         23         32           2016 weights         0         3         61         1.4         0.1           2017 Dec         0.2         4.3         6.4         1.4         0.1           2017 Dec         0.2         2.4.3         6.4         1.4         0.1           2016 Mark         1.8         4.2.2         2.9         0.2         2.26           Mar         1.3         0.3         2.28         0.4         0.10           May         0.4         0.05         0.8         0.4         0.03           Jun         0.21         1.2         0.0         1.7         0.8           Aug         3.9         2.5         0.4         1.0         3.4           Oct         1.3         0.4         0.3         0.1         3.4           Oct         3.8         0.6         0.4         0.1         3.4           May         0.25         0.8			•			
activities         activities         -munications         related activities           Component         58         60         23         32           Percentage change, latest month on previous month          2317         S221         S23         S2         S2 <ths< th=""><th></th><th></th><th></th><th></th><th></th><th></th></ths<>						
Component         53         59         60         61         62         32           Percentage change, latest month on previous month         S221         S22.1         KFV7         S22K         S22.1           2017 Dec         -0.2         4.3         6.1         1.4         0.1           2018 weights         -1.9         -0.3         0.5         -0.3         0.6           2018 weight         -1.3         0.3         -2.8         0.4         1.0           Mar         1.8         4.2         0.9         -0.2         2.6           Mar         -1.3         0.3         -2.8         0.4         1.0           Jun         -2.1         2.6         0.2         1.2         -0.9           Aug         3.9         2.5         0.4         1.0         3.4           Oct         -1.7         -5.8         -0.6         -2.4         0.4           Nov         3.6         0.3         -2.6         0.9         1.0           Oct         -1.7         -5.8         -0.6         0.4         0.4           Nov         3.6         0.3         2.6         0.9         0.2           Dec         1.						
2016 weights         8         6         23         32           Percentage change, latest month on previous month         S221         S221         KFV7         S224         S221           2017 Dec         -0.2         4.3         6.1         1.4         0.1           2018 Jan         -1.9         -3.9         0.4         -0.3         0.6           Mar         1.8         4.2         2.9         0.4         2.6           Mar         -1.8         4.2         2.9         0.4         2.3           Juin         -0.2         1.4         0.3         0.4         0.3         0.4           Juin         -0.7         1.6         0.2         1.4         2.3         0.4         0.3         1.0           Aug         3.9         2.5         -0.4         1.0         3.4         0.3         1.7         0.8         1.0           Oct         -1.7         -5.8         -0.6         -2.4         0.4         0.3         1.7           2019 Jan         2.3         4.0         -0.3         -1.5         0.1         0.3         1.7           2017 Jac         1.1         3.4         0.4         1.1         2.						
Procentage change, latest month on previous month           2017 Dec         -0.2         4.3         6.1         1.4         0.1           2018 Jan         -1.9         -3.9         0.4         -2.2         2.8           Mar         1.8         4.2         2.9         -2.2         2.6           Apr         -1.3         0.3         -2.8         0.4         1.0           May         -0.4         -0.5         0.8         0.4         0.3           Jun         -2.1         -2.6         0.2         -1.4         2.3           Jun         -0.7         1.6         0.2         -1.4         2.3           Agp         -2.2         9.0         0.7         1.0         8         1.0           Nov         3.6         0.3         -2.6         0.9         0.2         D.2           Dec         1.9         -1.0         3.4         0.3         1.7           2019 Jan         2.3         4.0         -0.3         -1.5         1.5           Apr         0.1         4.4         2.4         -2.2         2.6           May         2.5         0.8         -1.5         -1.5         0.5						
Dec         S22I         S22J         KFV7         S22K         S2K	2016 weights	8	8	6	23	32
Dec         S22I         S22J         KFV7         S22K         S2K	Porcontago chango latos	t month on provious mo	ath			
2017 Dec         -0.2         4.3         6.1         1.4         0.1           2018 Jan         -1.9         -3.9         -0.4         -0.3         0.6           Mar         1.8         4.2         2.9         -0.2         2.6           Apr         -1.3         0.3         -2.8         0.4         1.0           May         -0.4         -0.5         0.8         0.4         0.3           Jul         -0.7         1.6         0.2         -1.4         2.3           Jul         -0.7         1.6         0.2         -1.2         0.9           Aug         3.9         2.5         -0.4         1.0         3.4           Oct         -1.7         -5.8         -0.6         -2.4         0.4           Nov         3.6         0.3         -2.5         0.4         0.1         0.4           Nov         3.6         0.3         -1.5         0.3         1.7         0.5         0.4         0.3         1.7           2019 Jan         2.3         2.4         0.4         1.4         2.1         0.4         0.4         1.4         0.5         0.8         0.5         0.3         0.6	Fercentage change, lates			KEV7	SOOK	5001
2018 Jan         -1.9         -3.9         0.4         -0.3         0.6           Mar         1.8         4.2         2.9         -0.2         2.6           Apr         -1.3         0.3         2.8         0.4         1.03           May         -0.4         -0.5         0.8         0.4         0.3           Jul         -0.7         1.6         0.2         1.4         2.3           Jul         -0.7         1.6         0.2         1.4         2.3           Aug         3.9         2.5         -0.4         1.0         3.4           Sep         -2.2         9.0         1.7         0.8         1.0           Oct         -1.7         -5.8         -0.6         -2.4         0.4           Nov         3.6         0.3         -2.6         0.9         0.2           Pace         1.9         -1.0         3.4         0.3         1.7           Aug         -0.1         4.4         2.4         2.5         2.6           Mar         -1.1         3.2         1.5         -1.5         -1.5           Jul         -1.0         1.8         2.0         0.6         -2.2	2017 Dec					
Feb         1.5         -2.1         -3.5          -2.2           Apr         1.3         0.3         -2.8         0.4         1.0           May         -0.4         -0.5         0.8         0.4         0.3           Jul         -0.7         1.6         0.2         -1.4         2.3           Jul         -0.7         1.6         0.2         -1.4         2.3           Aug         3.9         2.5         -0.4         1.0         3.4           Sep         -2.2         9.0         1.7         0.8         1.0           Oct         -1.7         -5.8         -0.6         2.4         0.4           Nov         3.6         0.3         -1.5         0.3         1.7           2019 Jan         2.3         4.0         -0.3         -1.5         0.6           May         -0.1         4.4         1.3         2.5         -1.6           May         -1.1         3.2         -1.5         0.8           May         0.1         1.8         2.0         0.6         -0.2           May         0.2         2.1         1.3         0.7         -1.0 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>						
Mar         1.8         4.2         2.9         0.02         2.6           May         -0.4         -0.5         0.8         0.4         0.3           Jun         -2.1         -2.6         0.02         -1.4         2.3           Jul         -0.7         1.6         0.2         -1.2         -0.9           Aug         3.9         2.5         -0.4         1.0         3.4           Sep         -2.2         9.0         1.7         0.8         1.0           Nov         3.6         0.3         -2.6         0.9         0.2           Dec         1.9         -1.0         3.4         0.3         1.7           2019 Jan         2.3         4.0         -0.3         -1.5         0.1           Mar         -1.3         -0.4         1.3         2.5         -1.5           Aug         0.0         2.8         -1.5         -1.5         0.6           Jul         -1.0         1.8         2.0         0.6         -2.2           Aug         -0.4         -1.4         -3.1         -         -         1.6           Sep         -3.7         5.2         3.0         0.9 </td <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>					-	
Apr         1.3         0.3         2.8         0.4         1.0           Jun         2.1         2.6         0.2         1.4         2.3           Jul         0.7         1.6         0.2         1.2         2.03           Aug         3.9         2.5         0.4         1.0         3.4           Sep         2.2         9.0         1.7         0.8         1.0           Oct         1.7         5.8         0.6         2.4         0.4           Nov         3.6         0.3         1.5         0.5         0.5         0.6         0.9         0.24         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.4         0.1         0.4         0.4         0.1         0.4         0.4         0.1         0.4         0.4         0.1         0.4         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.1         0.4         0.5         0.5					-0.2	
May         -0.4         -0.5         0.8         0.4         0.3           Jun         -2.1         -2.6         -0.2         -1.4         2.3           Jul         -0.7         1.6         0.2         1.2         -0.9           Aug         3.9         2.5         -0.4         1.0         -3.4           Sep         -2.2         9.0         1.7         0.8         1.0           Oct         -1.7         -5.8         -0.6         -2.4         0.4           Nov         3.6         0.3         -2.6         0.9         0.2           Dec         1.9         -1.0         3.4         0.3         1.7           Z019 Jan         2.3         4.0         -0.3         1.5         0.5           Mar         -1.3         0.4         1.3         2.5         -1.5           Mar         -1.3         0.4         -1.5         -1.5         -1.5           Jul         -1.1         1.4         2.0         0.6         -0.2           Aug         -1.2         2.1         1.3         0.7         -1.6           Jun         1.1         3.6         -1.7         -0.4 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Jun         2.1         2.26         0.2         1.4         2.3           Aug         3.9         2.5         0.4         1.0         3.4           Sep         2.2         9.0         1.7         0.8         1.0           Oct         -1.7         5.8         0.6         -2.4         0.4           Dec         1.9         -1.0         3.4         0.3         1.17           2019 Jan         2.3         4.0         -0.3         -1.5         0.4           Mar         -1.3         -0.4         1.3         2.5         -1.5           Apr         0.1         4.4         2.4         -2.2         2.6           May         2.5         -0.8         -1.5         -1.5         -0.8           Jun         1.1         3.2         2.5         -1.5         -1.6           Sep         -3.7         5.2         3.0         0.9         9.9           Oct         -1.2         2.1         1.3         0.7         -1.6           Sep         -3.7         5.2         3.0         0.9         9.9           Oct         -1.2         2.1         1.2         1.2         1.2 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Jul         -0.7         1.6         0.2         1.2         -0.9           Aug         3.9         2.5         -0.4         1.0         3.4           Sep         -2.2         9.0         1.7         0.8         1.0           Oct         -1.7         -5.8         -0.6         -2.4         0.4           Nov         3.6         0.3         -2.6         0.9         0.2           Dec         1.9         -1.0         3.4         0.3         1.7           2019 Jan         2.3         4.0         -0.3         -1.5         0.6           Mar         -1.3         -0.4         1.3         2.5         -1.5           Aug         0.1         4.4         2.4         -2.2         2.6           May         2.5         -0.8         -1.5         -1.5         -0.8           Jul         1.1         3.2         0.7         -1.5         .0           Jul         -1.0         1.8         2.0         0.5         -1.7         .0           Sep         -3.7         5.2         3.0         0.7         .1         0.4           Dec         3.0         0.7         -1.0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Aug         3.9         2.5         -0.4         1.0         3.4           Sep         -2.2         9.0         1.7         0.8         1.0           Oct         -1.7         -5.8         -0.6         -2.4         0.4           Dec         1.9         -1.0         3.4         0.3         1.7           2019 Jan         2.3         4.0         -0.3         -1.5         0.5           Fab         -0.9         2.8         -1.5         -1.3         0.4           Mar         -1.3         -0.4         1.3         2.5         -1.5           Aug         2.5         -0.8         -1.5         -1.5         -0.8           Jun         1.1         3.2         2.5         -1.5         -1.6           May         2.5         -0.8         -1.5         -1.5         -0.8           Jul         -1.0         1.8         2.0         0.6         -0.2           Aug         -0.4         -1.1         -3.0         0.7         -1.0           Nov         -2.8         2.6         -1.7         -0.4         -0.1           Dec         3.0         8.2         2.4         -1.2						
Sep         -2.2         9.0         1.7         0.8         1.0           Oct         -1.7         -5.8         0.6         -2.4         0.4           Nov         3.6         0.3         -2.6         0.9         0.2           Dec         1.9         -1.0         3.4         0.3         -1.5           Z019 Jan         2.3         4.0         -0.3         -1.5         0.4           Mar         -1.3         -0.4         1.3         2.5         -1.5           Apr         0.1         4.4         2.4         -2.2         2.6           May         2.5         -0.8         -1.5         -1.5         -0.8           Jun         1.1         3.2         1.3         0.7         1.5           Jul         -1.0         1.8         2.0         0.6         -0.2           Aug         -0.4         -1.4         -3.1         -         -1.6           Sep         -3.7         5.2         3.0         0.9         0.9           Oct         -1.2         2.1         1.3         0.7         -1.0           Dec         3.0         8.2         2.4         -1.2         1.2						
Oci         1.7         -5.8         -0.6         -2.4         0.4           Nov         3.6         0.3         -2.6         0.9         0.2           Dec         1.9         -1.0         3.4         0.3         1.5         0.5           Feb         -0.9         2.8         -1.5         1.3         0.4           Mar         -1.3         0.4         2.2         2.6           May         2.5         -0.8         -1.5         -1.5           Jun         1.1         3.2         1.3         0.7         1.5           Jui         -1.0         1.8         2.0         0.6         -0.2           Aug         -0.4         -1.4         -3.1         -         -1.6           Sep         -3.7         5.2         3.0         0.9         0.9           Oct         -1.2         2.1         1.3         0.7         -1.0           Nov         -2.8         -6.2         -0.4         -1.2         2.1           Dec         3.0         0.9         9.0         0.6         -1.7         -0.4           Dec         -1.2         0.1         1.3         0.1         1.2						
Nov         3.6         0.3         -2.6         0.9         0.2           Dec         1.9         -1.0         3.4         0.3         1.5         0.5           Peb         -0.9         2.8         -1.5         1.3         0.4           Mar         -1.3         -0.4         1.3         2.5         -0.8           May         2.5         -0.8         -1.5         -1.5         -0.8           Jun         1.1         3.2         3.0.7         1.5           Jul         -1.0         1.8         2.0         0.6         -0.2           Aug         -0.4         -1.4         -3.1         -         -1.6           Sep         -3.7         5.2         3.0         0.9         0.9           Oct         -1.2         2.1         1.3         0.7         -1.0           Nov         -2.8         -6.2         -0.5         1.7         -0.4           Dec         3.0         8.2         2.4         -1.2         1.2           Percentage change, latest 3 months on same 3 months a year ago         -         1.7         -0.4           Regin         -3.3         2.1         -1.2         1.1						
Dec         1.9         -1.0         3.4         0.3         1.7           2019 Jan         2.3         4.0         -0.3         -1.5         0.5           Feb         -0.9         2.8         -1.5         -1.3         0.4           Mar         -1.3         -0.4         1.3         2.5         -1.5           Apr         0.1         4.4         2.4         -2.2         2.6           May         2.5         -0.8         -1.5         -1.5         -0.8           Juin         1.1         3.2         1.3         0.7         1.5           Jui         -1.0         1.8         2.0         0.6         -0.2           Aug         -0.4         -1.4         -3.1         -         -1.6           Sep         -3.7         5.2         3.0         0.9         0.9           Oct         -1.2         2.1         1.3         0.7         -1.0           Dec         3.0         8.2         2.4         -1.7         -0.4           Dec         3.0         8.2         2.4         -1.7         -0.4           Dec         -5.9         12.6         -1.1         0.6 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
2019 Jan         2.3         4.0         0.3         -1.5         0.5           Feb         0.9         2.8         -1.5         -1.3         0.4           Mar         -1.3         0.4         1.3         2.5         -1.5           Apr         0.1         4.4         2.4         2.2         2.6           May         2.5         0.8         -1.5         -1.5         -0.8           Jun         1.1         3.2         0.7         1.5         -0.8           Jul         -1.0         1.8         2.0         0.6         -0.2           Aug         -0.4         -1.4         3.1         -         -1.6           Sep         -3.7         5.2         3.0         0.9         0.9           Oct         -1.2         2.1         1.3         0.7         -1.0           Nov         -2.8         -6.2         -2.4         -1.2         1.2           Percentage change, latest 3 months on same 3 months a year ago         -1.7         -0.4         -0.1         1.0           Dec         -5.9         12.6         -1.1         -0.6         9.0           2017 Dec         -5.9         1.3						
Feb         -0.9         2.8         1.5         -1.3         0.4           Mar         -1.3         -0.4         1.3         2.5         -1.5           Apr         0.1         4.4         2.4         -2.2         2.6           May         2.5         -0.8         -1.5         -1.5         -0.8           Juin         1.1         3.2         1.3         0.7         1.5           Jui         -1.0         1.8         2.0         0.6         -0.2           Aug         -0.4         -1.4         -3.1         -         -1.6           Sep         -3.7         5.2         3.0         0.9         0.9           Oct         -1.2         2.1         1.3         0.7         -1.0           Nov         -2.8         -6.2         0.5         -1.7         -0.4           Dec         3.0         8.2         2.4         -1.2         1.2           2017 Dec         -5.9         12.6         -1.1         -0.6         9.0           2017 Dec         -5.9         12.8         -0.4         -0.1         1.0           Quin         -6.8         12.8         -0.4         -0.1						
Apr         0.1         4.4         2.4         -2.2         2.6           May         2.5         0.8         -1.5         -1.5         0.8           Jun         1.1         3.2         1.3         0.7         1.5           Jul         -1.0         1.8         2.0         0.6         -0.2           Aug         0.4         -1.4         -3.1         -         -1.6           Sep         -3.7         2.2         3.0         0.9         0.9           Oct         -1.2         2.1         1.3         0.7         -1.0           Nov         -2.8         -6.2         -0.5         -1.7         -0.4           Dec         3.0         8.2         2.4         -1.2         1.2            2017 Dec         5.9         12.6         -1.1         -0.6         9.0           2017 Dec         -5.9         12.6         -1.1         -0.6         9.0           2017 Dec         -5.9         12.6         -1.1         -9.6         9.0           2017 Dec         -5.9         12.6         -1.1         -9.6         9.0           Apr         0.3         8.0						
Apr         0.1         4.4         2.4         -2.2         2.6           May         2.5         0.8         -1.5         -1.5         0.8           Jun         1.1         3.2         1.3         0.7         1.5           Jul         -1.0         1.8         2.0         0.6         -0.2           Aug         0.4         -1.4         -3.1         -         -1.6           Sep         -3.7         2.2         3.0         0.9         0.9           Oct         -1.2         2.1         1.3         0.7         -1.0           Nov         -2.8         -6.2         -0.5         -1.7         -0.4           Dec         3.0         8.2         2.4         -1.2         1.2            2017 Dec         5.9         12.6         -1.1         -0.6         9.0           2017 Dec         -5.9         12.6         -1.1         -0.6         9.0           2017 Dec         -5.9         12.6         -1.1         -9.6         9.0           2017 Dec         -5.9         12.6         -1.1         -9.6         9.0           Apr         0.3         8.0	Mar	-1.3	-0.4	1.3	2.5	-1.5
May         2.5         -0.8         -1.5         -1.5         -0.8           Jun         1.1         3.2         1.3         0.7         1.5           Jul         -1.0         1.8         2.0         0.6         -0.2           Aug         -0.4         -1.4         -3.1         -         -1.6           Sep         -3.7         5.2         3.0         0.9         9.09           Oct         -1.2         2.1         1.3         0.7         -1.0           Nov         -2.8         -6.2         -0.5         -1.7         -0.4           Dec         3.0         8.2         2.4         -1.2         1.2           Precentage change, latest 3 months on same 3 months a year ago           2017 Dec         -5.9         2.6         -1.1         -0.6         9.0           2018 Jan         -6.8         12.8         -0.4         -0.1         10.4           Feb         -5.0         11.3         2.1         -         9.7           Mar         -1.5         3.1         -1.2         0.1         7.5           Jun         -1.5         3.1         -1.2         0.1         7.5			4.4			
Jun         1.1         3.2         1.3         0.7         1.5           Jul         -10         1.8         2.0         0.6         -0.2           Aug         -0.4         -1.4         -3.1         -         -1.6           Sep         -3.7         5.2         3.0         0.9         0.9           Oct         -1.2         2.1         1.3         0.7         -1.0           Nov         -2.8         -6.2         -0.5         -1.7         -0.4           Dec         3.0         8.2         2.4         -1.2         1.2           S2GM S2GN KFJ6 S2GO S2GP           2017 Dec         -5.9         12.6         -1.1         -0.6         9.0           2018 Jan         -6.8         12.8         -0.4         -0.1         10.4           Feb         -5.0         11.3         2.1         -         9.7           Mar         -1.7         9.5         3.4         0.5         9.2           Apr         0.3         8.0         1.3         0.6         7.7           May         1.2         5.9         0.6         1.1         7.9           Jun         -1.5			-0.8			
Aug         -0.4         -1.4         -3.1          -1.6           Sep         -3.7         5.2         3.0         0.9         0.9           Oct         -1.2         2.1         1.3         0.7         1.0           Nov         -2.8         -6.2         -0.5         -1.7         -0.4           Dec         3.0         8.2         2.4         -1.2         1.2           Precentage change, latest 3 months on same 3 months a year ago           2017 Dec         -5.9         12.6         -1.1         -0.6         9.0           2018 Jan         -6.8         12.8         -0.4         -0.1         10.4           Feb         -5.0         11.3         2.1         -         9.7           Mar         -1.7         9.5         3.4         0.6         7.7           Mar         -1.5         3.1         -1.2         0.1         7.5           Jun         -1.5         3.1         -1.2         0.1         7.5           Sep         -2.6         9.6         0.1         1.9         8.3           Oct         -2.5         8.8         -6.6         9.2         9.0         9.2		1.1	3.2		0.7	
Sop Oct         3.7         5.2         3.0         0.9         0.9           Oct         -1.2         2.1         1.3         0.7         -1.0           Nov         -2.8         -6.2         -0.5         -1.7         -0.4           Dec         3.0         8.2         2.4         -1.2         1.2           Percentage change, latest 3 months on same 3 months a year ago         KFJ6         S2GO         S2GP           2017 Dec         -5.9         12.6         -1.1         -0.6         9.0           2018 Jan         -6.8         12.8         -0.4         -0.1         10.4           Feb         -5.0         11.3         2.1         -         9.7           Mar         -1.7         9.5         3.4         0.5         9.2           Apr         0.3         8.0         1.3         0.6         7.7           May         1.2         5.9         0.6         1.1         7.9           Jun         -1.5         3.1         -1.2         0.1         7.5           Jul         -3.5         3.8         4.4         0.2         0.5         7.5           Sep         -2.6         9.6 <t< td=""><td></td><td>-1.0</td><td>1.8</td><td></td><td>0.6</td><td></td></t<>		-1.0	1.8		0.6	
Sop         3.7         5.2         3.0         0.9         0.9           Oct         -1.2         2.1         1.3         0.7         -1.0           Nov         -2.8         -6.2         -0.5         -1.7         -0.4           Dec         3.0         8.2         2.4         -1.2         1.2           Percentage change, latest 3 months on same 3 months a year ago         KFJ6         S2GO         S2GO         S2GP           2017 Dec         -5.9         12.6         -1.1         -0.6         9.0           2018 Jan         -6.8         12.8         -0.4         -0.1         10.4           Feb         -5.0         11.3         2.1         -         9.7           Mar         -1.7         9.5         3.4         0.5         9.2           Apr         0.3         8.0         1.3         0.6         7.7           May         1.2         5.9         0.6         1.1         7.9           Jun         -1.5         3.1         -1.2         0.1         7.5           Jul         -3.5         3.8         4.4         0.2         0.5         7.5           Sep         -2.6         9	Aug	-0.4	-1.4	-3.1	-	-1.6
Nov         -2.8         -6.2         -0.5         -1.7         -0.4           Dec         3.0         8.2         2.4         -1.2         1.2           Percentage change, latest 3 months on same 3 months a year ago              2017 Dec         -5.9         12.6         -1.1         -0.6         9.0           2018 Jan         -6.8         12.8         -0.4         -0.1         10.4           Feb         -5.0         11.3         2.1         -         9.7           Mar         -1.7         9.5         3.4         0.5         9.2           Apr         0.3         8.0         1.3         0.6         7.7           May         1.2         5.9         0.6         1.1         7.9           Jun         -1.5         3.1         -1.2         0.1         7.5           Sep         -2.6         9.6         0.1         1.9         8.3           Oct         -2.5         8.8         -2.5         2.6         9.2           Nov         -2.6         9.2         -0.7         2.3         9.0           Dec         -1.0         5.5         -0.9         1.2	Sep	-3.7	5.2	3.0	0.9	0.9
Nov         -2.8         -6.2         -0.5         -1.7         -0.4           Dec         3.0         8.2         2.4         -1.2         1.2           Percentage change, latest 3 months on same 3 months a year ago              S2GM         S2GM         KFJ6         S2GO         S2GP           2017 Dec         5.9         12.6         -1.1         -0.6         9.0           2018 Jan         -6.8         11.3         2.1         -         9.7           Mar         -1.7         9.5         3.4         0.5         9.2           Apr         0.3         8.0         1.3         0.6         7.7           May         1.2         5.9         0.6         1.1         7.9           Jun         -1.5         3.1         -1.2         0.1         7.5           Jul         -3.5         3.8         0.6         0.3         6.9           Aug         -3.5         3.8         0.6         0.1         1.9         8.3           Oct         -2.5         8.8         -2.5         2.6         9.2           Nov         -2.6         9.2         0.7         0.1	Oct	-1.2	2.1	1.3	0.7	-1.0
Percentage change, latest 3 months on same 3 months a year ago         KFJ6         S2GO         S2GP           2017 Dec         -5.9         12.6         -1.1         -0.6         9.0           2018 Jan         -6.8         12.8         -0.4         -0.1         10.4           Feb         -5.0         11.3         2.1         -         9.7           Mar         -1.7         9.5         3.4         0.5         9.2           Apr         0.3         8.0         1.3         0.6         7.7           May         1.2         5.9         0.6         1.1         7.9           Jun         -1.5         3.1         -1.2         0.1         7.5           Jul         -3.5         3.8         0.6         0.3         6.9           Aug         -3.8         4.4         0.2         0.5         7.5           Sep         -2.6         9.6         0.1         1.9         8.3           Oct         -2.5         8.8         -2.5         2.6         9.2           Nov         -2.6         9.2         -0.7         2.3         9.0           Dec         -1.0         5.5         -0.9         1.2		-2.8	-6.2	-0.5	-1.7	-0.4
S2GM         S2GN         KFJ6         S2GO         S2GP           2017 Dec         -5.9         12.6         -1.1         -0.6         9.0           2018 Jan         -6.8         12.8         -0.4         -0.1         10.4           Feb         -5.0         11.3         2.1         -         9.7           Mar         -1.7         9.5         3.4         0.5         9.2           Apr         0.3         8.0         1.3         0.6         7.7           May         1.2         5.9         0.6         1.1         7.9           Jun         -1.5         3.1         -1.2         0.1         7.5           Jul         -3.8         4.4         0.2         0.5         7.5           Sep         -2.6         9.6         0.1         1.9         8.3           Oct         -2.5         8.8         -2.5         2.6         9.2           Nov         -2.6         9.2         -0.7         2.3         9.0           Dec         -1.0         5.5         -0.9         1.2         9.4           2019 Jan         2.8         5.6         -0.3         0.5         10.1	Dec	3.0	8.2	2.4	-1.2	1.2
S2GM         S2GN         KFJ6         S2GO         S2GP           2017 Dec         -5.9         12.6         -1.1         -0.6         9.0           2018 Jan         -6.8         12.8         -0.4         -0.1         10.4           Feb         -5.0         11.3         2.1         -         9.7           Mar         -1.7         9.5         3.4         0.5         9.2           Apr         0.3         8.0         1.3         0.6         7.7           May         1.2         5.9         0.6         1.1         7.9           Jun         -1.5         3.1         -1.2         0.1         7.5           Jul         -3.8         4.4         0.2         0.5         7.5           Sep         -2.6         9.6         0.1         1.9         8.3           Oct         -2.5         8.8         -2.5         2.6         9.2           Nov         -2.6         9.2         -0.7         2.3         9.0           Dec         -1.0         5.5         -0.9         1.2         9.4           2019 Jan         2.8         5.6         -0.3         0.5         10.1						
2017 Dec         -5.9         12.6         -1.1         -0.6         9.0           2018 Jan         -6.8         12.8         -0.4         -0.1         10.4           Feb         -5.0         11.3         2.1         -         9.7           Mar         -1.7         9.5         3.4         0.5         9.2           Apr         0.3         8.0         1.3         0.6         7.7           May         1.2         5.9         0.6         1.1         7.9           Jun         -1.5         3.1         -1.2         0.1         7.5           Jul         -3.5         3.8         0.6         0.3         6.99           Aug         -3.5         3.8         0.6         0.3         6.99           Aug         -2.6         9.6         0.1         1.9         8.3           Oct         -2.5         8.8         -2.5         2.6         9.2           Nov         -2.6         9.2         -0.7         2.3         9.0           Dec         -1.0         5.5         -0.9         1.2         9.4           2019 Jan         2.8         5.6         -0.3         0.5	Percentage change, lates					
2018 Jan         -6.8         12.8         -0.4         -0.1         10.4           Feb         -5.0         11.3         2.1         -         9.7           Mar         -1.7         9.5         3.4         0.5         9.2           Apr         0.3         8.0         1.3         0.6         7.7           May         1.2         5.9         0.6         1.1         7.9           Jun         -1.5         3.1         -1.2         0.1         7.5           Jul         -3.5         3.8         0.6         0.3         6.9           Aug         -2.6         9.6         0.1         1.9         8.3           Oct         -2.5         8.8         -2.5         2.6         9.2           Nov         -2.6         9.2         -0.7         2.3         9.0           Dec         -1.0         5.5         -0.9         1.2         9.4           2019 Jan         2.8         5.6         -0.3         0.5         10.1           Feb         4.1         8.4         -0.7         -0.7         11.6           Mar         3.6         11.4         -0.8         -0.6 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
Feb-5.011.32.19.7Mar-1.79.53.40.59.2Apr0.38.01.30.67.7May1.25.90.61.17.9Jun-1.53.1-1.20.17.5Jul-3.53.80.60.36.9Aug-3.84.40.20.57.5Sep-2.69.60.11.98.3Oct-2.58.8-2.52.69.2Nov-2.69.2-0.72.39.0Dec-1.05.5-0.91.29.42019 Jan2.85.6-0.30.510.1Feb4.18.4-0.7-0.711.6Mar3.611.4-0.8-0.611.0Apr2.213.01.2-1.011.0Apr2.612.71.7-1.69.7Jun5.116.33.1-2.49.5Jul7.218.63.5-2.59.1Aug6.719.43.6-2.37.3Sep4.616.53.7-2.85.7Oct2.716.83.8-2.13.5Nov0.315.95.6-1.92.8						
Mar         -1.7         9.5         3.4         0.5         9.2           Apr         0.3         8.0         1.3         0.6         7.7           May         1.2         5.9         0.6         1.1         7.9           Jun         -1.5         3.1         -1.2         0.1         7.5           Jul         -3.5         3.8         0.6         0.3         6.9           Aug         -3.5         3.8         0.6         0.3         6.9           Aug         -2.6         9.6         0.1         1.9         8.3           Oct         -2.5         8.8         -2.5         2.6         9.0           Dec         -1.0         5.5         -0.9         1.2         9.4           2019 Jan         2.8         5.6         -0.3         0.5         10.1           Mar         3.6         11.4         -0.8         -0.6         11.0           Apr         2.2         13.0         1.2         9.4         2019 Jan         2.6         12.7         1.7         -1.6         9.7           Mar         3.6         11.4         -0.8         -0.6         11.0         Apr <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Apr0.38.01.30.67.7May1.25.90.61.17.9Jun-1.53.1-1.20.17.5Jul-3.53.80.60.36.9Aug-3.84.40.20.57.5Sep-2.69.60.11.98.3Oct-2.58.8-2.52.69.2Nov-2.69.2-0.72.39.0Dec-1.05.5-0.91.29.42019 Jan2.85.6-0.30.510.1Feb4.18.4-0.7-0.711.6Mar3.611.4-0.8-0.611.0Apr2.213.01.2-1.011.0Apr2.612.71.7-1.69.7Jun5.116.33.1-2.49.5Jul7.218.63.5-2.59.1Aug6.719.43.6-2.37.3Sep4.616.53.7-2.85.7Oct2.716.83.8-2.13.5Nov0.315.95.6-1.92.8						
May         1.2         5.9         0.6         1.1         7.9           Jun         -1.5         3.1         -1.2         0.1         7.5           Jul         -3.5         3.8         0.6         0.3         6.9           Aug         -3.8         4.4         0.2         0.5         7.5           Sep         -2.6         9.6         0.1         1.9         8.3           Oct         -2.5         8.8         -2.5         2.6         9.2           Nov         -2.6         9.2         -0.7         2.3         9.0           Dec         -1.0         5.5         -0.9         1.2         9.4           2019 Jan         2.8         5.6         -0.3         0.5         10.1           Feb         4.1         8.4         -0.7         -0.7         11.6           Mar         3.6         11.4         -0.8         -0.6         11.0           Apr         2.2         13.0         1.2         -1.0         11.0           Apr         2.6         12.7         1.7         -1.6         9.7           Jun         5.1         16.3         3.5         -2.5         9						
Jun         -1.5         3.1         -1.2         0.1         7.5           Jul         -3.5         3.8         0.6         0.3         6.9           Aug         -3.8         4.4         0.2         0.5         7.5           Sep         -2.6         9.6         0.1         1.9         8.3           Oct         -2.5         8.8         -2.5         2.6         9.2           Nov         -2.6         9.2         -0.7         2.3         9.0           Dec         -1.0         5.5         -0.9         1.2         9.4           2019 Jan         2.8         5.6         -0.3         0.5         10.1           Feb         4.1         8.4         -0.7         -0.7         11.6           Mar         3.6         11.4         -0.8         -0.6         11.0           Apr         2.2         13.0         1.2         -1.0         11.0           Apr         2.2         13.0         1.2         -1.0         11.0           Apr         2.6         12.7         1.7         -1.6         9.7           Jun         5.1         16.3         3.1         -2.4 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
Jul         -3.5         3.8         0.6         0.3         6.9           Aug         -3.8         4.4         0.2         0.5         7.5           Sep         -2.6         9.6         0.1         1.9         8.3           Oct         -2.5         8.8         -2.5         2.6         9.2           Nov         -2.6         9.2         -0.7         2.3         9.0           Dec         -1.0         5.5         -0.9         1.2         9.4           2019 Jan         2.8         5.6         -0.3         0.5         10.1           Feb         4.1         8.4         -0.7         -0.7         11.6           Mar         3.6         11.4         -0.8         -0.6         11.0           Apr         2.2         13.0         1.2         -1.0         11.0           May         2.6         12.7         1.7         -1.6         9.7           Jun         5.1         16.3         3.1         -2.4         9.5           Jul         7.2         18.6         3.5         -2.5         9.1           Aug         6.7         19.4         3.6         -2.3 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
Aug-3.84.40.20.57.5Sep-2.69.60.11.98.3Oct-2.58.8-2.52.69.2Nov-2.69.2-0.72.39.0Dec-1.05.5-0.91.29.42019 Jan2.85.6-0.30.510.1Feb4.18.4-0.7-0.711.6Mar3.611.4-0.8-0.611.0Apr2.213.01.2-1.011.0May2.612.71.7-1.69.7Jun5.116.33.1-2.49.5Jul7.218.63.5-2.59.1Aug6.719.43.6-2.37.3Sep4.616.53.7-2.85.7Oct2.716.83.8-2.13.5Nov0.315.95.6-1.92.8						
Sep         -2.6         9.6         0.1         1.9         8.3           Oct         -2.5         8.8         -2.5         2.6         9.2           Nov         -2.6         9.2         -0.7         2.3         9.0           Dec         -1.0         5.5         -0.9         1.2         9.4           2019 Jan         2.8         5.6         -0.3         0.5         10.1           Mar         3.6         11.4         -0.8         -0.6         11.0           Apr         2.2         13.0         1.2         -1.0         11.0           Apr         2.2         13.0         1.2         -1.0         11.0           May         2.6         12.7         1.7         -1.6         9.7           Jun         5.1         16.3         3.1         -2.4         9.5           Jul         7.2         18.6         3.5         -2.5         9.1           Aug         6.7         19.4         3.6         -2.3         7.3           Sep         4.6         16.5         3.7         -2.8         5.7           Oct         2.7         16.8         3.8         -2.1         <						
Oct         -2.5         8.8         -2.5         2.6         9.2           Nov         -2.6         9.2         -0.7         2.3         9.0           Dec         -1.0         5.5         -0.9         1.2         9.4           2019 Jan         2.8         5.6         -0.3         0.5         10.1           Feb         4.1         8.4         -0.7         -0.7         11.6           Mar         3.6         11.4         -0.8         -0.6         11.0           Apr         2.2         13.0         1.2         -1.0         11.0           May         2.6         12.7         1.7         -1.6         9.7           Jun         5.1         16.3         3.1         -2.4         9.5           Jul         7.2         18.6         3.5         -2.5         9.1           Aug         6.7         19.4         3.6         -2.3         7.3           Sep         4.6         16.5         3.7         -2.8         5.7           Oct         2.7         16.8         3.8         -2.1         3.5           Nov         0.3         15.9         5.6         -1.9						
Nov         -2.6         9.2         -0.7         2.3         9.0           Dec         -1.0         5.5         -0.9         1.2         9.4           2019 Jan         2.8         5.6         -0.3         0.5         10.1           Feb         4.1         8.4         -0.7         -0.7         11.6           Mar         3.6         11.4         -0.8         -0.6         11.0           Apr         2.2         13.0         1.2         -1.0         11.0           May         2.6         12.7         1.7         -1.6         9.7           Jun         5.1         16.3         3.1         -2.4         9.5           Jul         7.2         18.6         3.5         -2.5         9.1           Aug         6.7         19.4         3.6         -2.3         7.3           Sep         4.6         16.5         3.7         -2.8         5.7           Oct         2.7         16.8         3.8         -2.1         3.5           Nov         0.3         15.9         5.6         -1.9         2.8						
Dec         -1.0         5.5         -0.9         1.2         9.4           2019 Jan         2.8         5.6         -0.3         0.5         10.1           Feb         4.1         8.4         -0.7         -0.7         11.6           Mar         3.6         11.4         -0.8         -0.6         11.0           Apr         2.2         13.0         1.2         -1.0         11.0           May         2.6         12.7         1.7         -1.6         9.7           Jun         5.1         16.3         3.1         -2.4         9.5           Jul         7.2         18.6         3.5         -2.5         9.1           Aug         6.7         19.4         3.6         -2.3         7.3           Sep         4.6         16.5         3.7         -2.8         5.7           Oct         2.7         16.8         3.8         -2.1         3.5           Nov         0.3         15.9         5.6         -1.9         2.8						
2019 Jan         2.8         5.6         -0.3         0.5         10.1           Feb         4.1         8.4         -0.7         -0.7         11.6           Mar         3.6         11.4         -0.8         -0.6         11.0           Apr         2.2         13.0         1.2         -1.0         11.0           May         2.6         12.7         1.7         -1.6         9.7           Jun         5.1         16.3         3.1         -2.4         9.5           Jul         7.2         18.6         3.5         -2.5         9.1           Aug         6.7         19.4         3.6         -2.3         7.3           Sep         4.6         16.5         3.7         -2.8         5.7           Oct         2.7         16.8         3.8         -2.1         3.5           Nov         0.3         15.9         5.6         -1.9         2.8						
Feb         4.1         8.4         -0.7         -0.7         11.6           Mar         3.6         11.4         -0.8         -0.6         11.0           Apr         2.2         13.0         1.2         -1.0         11.0           May         2.6         12.7         1.7         -1.6         9.7           Jun         5.1         16.3         3.1         -2.4         9.5           Jul         7.2         18.6         3.5         -2.5         9.1           Aug         6.7         19.4         3.6         -2.3         7.3           Sep         4.6         16.5         3.7         -2.8         5.7           Oct         2.7         16.8         3.8         -2.1         3.5           Nov         0.3         15.9         5.6         -1.9         2.8						
Mar         3.6         11.4         -0.8         -0.6         11.0           Apr         2.2         13.0         1.2         -1.0         11.0           May         2.6         12.7         1.7         -1.6         9.7           Jun         5.1         16.3         3.1         -2.4         9.5           Jul         7.2         18.6         3.5         -2.5         9.1           Aug         6.7         19.4         3.6         -2.3         7.3           Sep         4.6         16.5         3.7         -2.8         5.7           Oct         2.7         16.8         3.8         -2.1         3.5           Nov         0.3         15.9         5.6         -1.9         2.8						
Apr2.213.01.2-1.011.0May2.612.71.7-1.69.7Jun5.116.33.1-2.49.5Jul7.218.63.5-2.59.1Aug6.719.43.6-2.37.3Sep4.616.53.7-2.85.7Oct2.716.83.8-2.13.5Nov0.315.95.6-1.92.8						
May         2.6         12.7         1.7         -1.6         9.7           Jun         5.1         16.3         3.1         -2.4         9.5           Jul         7.2         18.6         3.5         -2.5         9.1           Aug         6.7         19.4         3.6         -2.3         7.3           Sep         4.6         16.5         3.7         -2.8         5.7           Oct         2.7         16.8         3.8         -2.1         3.5           Nov         0.3         15.9         5.6         -1.9         2.8						
Jun5.116.33.1-2.49.5Jul7.218.63.5-2.59.1Aug6.719.43.6-2.37.3Sep4.616.53.7-2.85.7Oct2.716.83.8-2.13.5Nov0.315.95.6-1.92.8						
Jul         7.2         18.6         3.5         -2.5         9.1           Aug         6.7         19.4         3.6         -2.3         7.3           Sep         4.6         16.5         3.7         -2.8         5.7           Oct         2.7         16.8         3.8         -2.1         3.5           Nov         0.3         15.9         5.6         -1.9         2.8						
Aug         6.7         19.4         3.6         -2.3         7.3           Sep         4.6         16.5         3.7         -2.8         5.7           Oct         2.7         16.8         3.8         -2.1         3.5           Nov         0.3         15.9         5.6         -1.9         2.8						
Sep4.616.53.7-2.85.7Oct2.716.83.8-2.13.5Nov0.315.95.6-1.92.8						
Oct         2.7         16.8         3.8         -2.1         3.5           Nov         0.3         15.9         5.6         -1.9         2.8						
Nov 0.3 15.9 5.6 -1.9 2.8						
	200	1.0	20.0	5.7	2.2	2.0

1 Indices reflect values measured at basic prices, which exclude "taxes less

Indices reflect values measured at basic prices, which exclude taxes less subsidies on products".
 Estimates cannot be regarded as accurate to the last digit shown.
 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
 A complete run of data is available on the ONS website as a <u>Time series dataset</u>

IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

		l	ndustry components (SIC200	7)	
		Motion pictures,			Computer
		tv production,	Programming		programming,
	Publishing	sound and music	and broadcasting	Telecom	consultancy and
	activities	activities	activites	-munications	related activities
Component	58	59	60	61	62
2016 weights	8	8	6	23	32
ercentage change, latest	3 months on previous 3 n	nonths			
0 0 /	S2BW	S2BX	KFJ8	S2BY	S2BZ
2017 Dec	-0.6	4.3	0.8	-0.2	1.8
2018 Jan	-1.8	2.8	-2.5	1.4	1.2
Feb	-1.9	1.6	0.7	1.6	
Mar	-1.1	-0.3	0.3	0.8	
Apr	1.0	-0.5	-0.4	0.2	0.3
May	1.2	1.4	-1.0	0.1	2.1
Jun	-0.5	1.1	-1.7	0.1	3.0
Jul	-2.3	-0.2	-0.2	0.1	3.1
Aug	-2.0	-1.0	-0.6	0.1	3.4
Sep	-0.5	4.3	0.7	1.3	3.3
Oct	0.6	6.6	0.6	1.0	4.3
Nov	0.1	7.2	0.2	0.5	3.3
Dec	1.0	0.4	-0.3	-0.9	2.9
2019 Jan	3.6	-0.2	-0.3	-0.8	2.1
Feb	4.9	0.8	0.7	-1.3	2.4
Mar	3.6	5.2	0.5	-1.0	1.4
Apr	0.3	6.4	1.1	-1.3	1.1
May	-0.3	5.5	1.3	-0.9	0.3
Jun	0.9	5.6	2.2	-1.8	1.6
Jul	2.5	4.7	2.0	-1.5	1.0
Aug	2.0	4.8	1.3	-0.6	1.1
Sep	-1.0	4.4	1.2	0.9	-0.2
Oct	-3.6	5.0	1.0	1.5	-0.9
Nov	-6.0	4.0	2.2	1.0	-1.0
Dec	-4.6	3.4	2.7	-0.3	-0.8

1 Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".

subsidies on products<sup>2</sup>.
2 Estimates cannot be regarded as accurate to the last digit shown.
3 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
4 A completer run of data is available on the ONS website as a Time series dataset

#### IOS: Inde: Telecom IOSCOMP Chained unications

seasonally adjusted 2016 = 100

ntinued			Industry components (SIC	22007)	
			Financial	Insurance,	Activities
	Information	Financial	service activities	except	auxiliar
	service	and insurance	except insurance	compulsory	to financial services
	activities	activities	and pension funding	social security	and insurance
Component	63	K	64	65.1-2	60
2016 weights	5	91	53	21	1
	S2LG	S2LH	S2LI	S2LJ	S2LI
2015	99.5	96.3	97.7	98.7	89.8
2016	100.0	100.0	100.0	100.0	100.0
2017		99.1	100.0	98.3	91.6
	106.7				
2018	119.8	98.1	101.3	95.2	91.3
2019	142.4	95.3	98.4	92.6	88.8
2017 Dec	115.8	98.3	101.1	96.8	91.
2018 Jan	110.2	98.9	101.6	96.7	92.8
Feb	114.3	99.4	102.1	96.6	94.4
Mar	114.8	99.2	102.4	96.3	92.8
Apr	117.0	99.0	102.4	95.8	92.0
May	117.9	98.6	102.2	95.5	91.1
Jun	118.0	98.2	101.6	95.4	91.1
Jul	119.6	97.9	101.0	95.1	91.3
Aug	124.1	97.6	100.6	94.9	91.
Sep	121.0	97.4	100.5	94.5	91.0
Oct	124.7	97.2	100.6	94.1	90.
Nov	129.7	96.9	100.5	93.8	89.
Dec	126.5	96.4	99.9	93.8	88.
2019 Jan	136.7	96.0	99.1	93.2	89.
Feb	141.8	95.4	98.1	93.0	89.
Mar	139.7	94.8	97.2	92.8	89.
Apr	137.2	94.3	96.7	92.5	88.
May	144.0	94.4	96.9	92.4	88.
Jun	142.1	95.1	98.1	92.7	88.
	145.7		99.3	92.9	
Jul		95.9			88.
Aug	143.0	96.2	99.5	92.9	89.
Sep	146.9	95.1	98.1	92.5	88.8
Oct	146.3	95.8	99.8	92.2	87.
Nov	143.8	94.7	98.0	92.0	87.
Dec	141.9	95.8	99.8	92.0	87.6
Percentage change, latest y	voar on provious voar				
crocinage onange, latest	S22M	S22N	S22O	S22P	S22F
2015	4.7	-3.8	-1.5	-0.1	-17.0
2016	0.5	3.8	2.3	1.3	11.4
2017	6.7	-0.9	1.8	-1.7	-8.4
2018	12.3	-1.1	-0.5	-3.1	-0.
2019	18.9	-2.8	-2.9	-2.8	-2.
Percentage change, latest r	nonth on same month	a vear ago			
	S27C	S27D	S27E	S27F	S27
2017 Dec	11.4	-1.9	0.3	-2.2	-9.
2018 Jan	7.7	-0.9	-1.2	-2.4	2.
Feb	15.1	-0.4	-0.4	-2.6	2.
Mar	12.9	-0.8	0.3	-3.2	-1.
Apr	12.5	-0.9	0.5	-3.8	-2.
					-2.
May	11.2	-1.0	0.4	-3.9	
Jun	10.4	-1.1	-0.3	-3.6	-0.
Jul	13.6	-1.5	-0.7	-3.3	-1.
Aug	15.7	-1.3	-1.2	-3.0	0.
Sep	10.3	-1.2	-1.3	-2.8	1.
Oct	14.3	-0.8	-0.6	-2.8	1.
Nov	15.4	-1.3	-0.6	-3.0	-1.
Dec	9.2	-1.9	-1.2	-3.0	-2.
2019 Jan	24.1	-2.9	-1.2	-3.7	-2.
Feb	24.1	-4.0	-3.9	-3.7	-5.
Mar	21.6	-4.5	-5.1	-3.6	-3.
Apr	17.2	-4.8	-5.6	-3.5	-3.
May	22.2	-4.2	-5.1	-3.2	-2.
Jun	20.4	-3.2	-3.5	-2.8	-2.
Jul	21.9	-2.0	-1.6	-2.4	-2.
Aug	15.2	-1.5	-1.1	-2.1	-2.
Sep	21.4	-2.3	-2.4	-2.1	-2.
	17.3	-1.4	-0.8	-2.0	-2.
Oct					
Oct Nov Dec	10.8 12.2	-2.2	-2.5 -0.2	-2.0 -2.0	-1. -0.

Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".
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IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

continued			Industry components (SIC20	07)	
	-		Financial	Insurance,	Activities
	Information	Financial	service activities	except	auxiliary
	service	and insurance	except insurance		
				compulsory	to financial services
<u> </u>	activities	activities	and pension funding	social security	and insurance
Component	63	K	64	65.1-2	66
2016 weights	5	91	53	21	17
Percentage change, latest r	nonth on previous month				
	S22M	S22N	S22O	S22P	S22F
2017 Dec	3.1	0.2	-	-	1.0
2018 Jan	-4.9	0.6	0.5	-	1.9
Feb	3.7	0.6	0.5	-0.1	1.7
Mar	0.5	-0.2	0.3	-0.4	-1.7
Apr	1.9	-0.2	-	-0.5	-0.8
May	0.7	-0.4	-0.3	-0.4	-1.0
Jun	0.1	-0.4	-0.5	-0.1	-0.1
Jul	1.3	-0.4	-0.6	-0.2	0.2
	3.8	-0.4	-0.8	-0.2	0.2
Aug					
Sep	-2.5	-0.3	-0.1	-0.4	-0.7
Oct	3.1	-0.1	0.2	-0.5	-0.8
Nov	4.0	-0.4	-0.1	-0.3	-1.3
Dec	-2.5	-0.5	-0.6	-	-0.8
2019 Jan	8.1	-0.5	-0.8	-0.7	1.1
Feb	3.7	-0.6	-1.0	-0.2	0.2
Mar	-1.5	-0.6	-1.0	-0.2	
Apr	-1.8	-0.5	-0.6	-0.3	-0.8
May	5.0	0.1	0.3	-0.0	0.1
Jun	-1.3	0.8	1.2	0.3	-0.1
Jul	2.5	0.8	1.3	0.2	0.1
Aug	-1.9	0.3	0.1	-	1.0
Sep	2.7	-1.1	-1.4	-0.4	-1.1
Oct	-0.4	0.8	1.8	-0.4	-1.3
Nov	-1.7	-1.2	-1.8	-0.3	
Dec	-1.3	1.1	1.8	-	
Porcontano channo latost 3	months on same 3 months	a vear ago			
ercentage change, latest c	S2GQ	S2GR	S2GS	S2GT	S2GV
2017 Dec	8.4	-2.9	0.7	-3.2	-13.6
2018 Jan	9.1	-1.9	-0.1	-2.7	-7.1
Feb	11.3	-1.1	-0.4	-2.4	-1.8
Mar	11.9	-0.7	-0.4	-2.4	1.1
Apr	13.5	-0.7	0.1	-3.2	-0.3
May	12.2	-0.9	0.4	-3.6	-1.7
Jun	11.3	-1.0	0.2	-3.8	-1.5
Jul	11.7	-1.2	-0.2	-3.6	-1.3
Aug	13.2	-1.3	-0.7	-3.3	-0.4
Sep	13.2	-1.3	-1.0	-3.1	0.1
Oct	13.4	-1.1	-1.0	-2.9	1.2
Nov	13.3	-1.1	-0.8	-2.9	0.5
Dec	12.9	-1.3	-0.8	-2.9	-0.9
2019 Jan	16.1	-1.3	-0.8	-3.2	-0.8
Feb	19.0	-3.0	-2.5	-3.5	-3.9
Mar	23.2	-3.8	-3.8	-3.7	-4.1
Apr	21.0	-4.4	-4.9	-3.6	-4.0
May	20.3	-4.5	-5.3	-3.4	-3.2
Jun	20.0	-4.1	-4.8	-3.2	-2.8
Jul	21.5	-3.1	-3.4	-2.8	-2.6
Aug	19.1	-2.2	-2.1	-2.5	-2.4
Sep	19.4	-2.2	-1.7	-2.3	-2.4
	19.4	-1.9	-1.7	-2.2	
	10.0	-1.8	-1.4		-2.5
Oct		0.0	1.0	~ ~ ~	~ ~
Nov Dec	16.4 13.4	-2.0 -1.5	-1.9 -1.2	-2.0 -2.0	-2.4 -1.9

1 Indices reflect values measured at basic prices, which exclude "taxes less

Indices reflect values measured at basic prices, which exclude 'taxes less subsidies on products".
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IOS: Index of Services Chained volume indices of gross value added <sup>1,2,3</sup>

seasonally adjusted 2016 = 100

			Industry components (SIC200	07)	
	-		Financial	Insurance,	Activities
	Information	Financial	service activities	except	auxiliary
	service	and insurance	except insurance	compulsory	to financial services
	activities	activities	and pension funding	social security	and insurance
Component	63	К	64	65.1-2	66
2016 weights	5	91	53	21	17
Percentage change, latest	t 3 months on previous 3 r	nonths			
	S2C2	S2C3	S2C4	S2C5	S2C7
2017 Dec	4.7	-0.8	-0.6	-1.1	-1.2
2018 Jan	3.8	-	-0.3	-0.6	1.6
Feb	2.7	0.7	0.2	-0.2	3.4
Mar	0.6	1.1	0.9	-0.2	3.
Apr	2.3	0.8	1.0	-0.5	1.5
May	2.8	0.1	0.7	-0.9	-0.
Jun	4.0	-0.6	0.1	-1.0	-2.
Jul	2.7	-1.0	-0.7	-1.0	-2.
Aug	3.4	-1.1	-1.3	-0.8	-0.
Sep	3.3	-1.0	-1.4	-0.8	-0.
Oct	4.0	-0.9	-1.0	-0.9	-0.
Nov	3.8	-0.8	-0.5	-1.1	-1.
Dec	4.4	-0.8	-0.3	-1.0	-2.
2019 Jan	6.2	-1.0	-0.7	-0.9	-2.
Feb	7.9	-1.3	-1.5	-0.8	-1.
Mar	9.8	-1.5	-2.2	-0.9	0.
Apr	6.5	-1.7	-2.5	-0.9	0.
May	3.9	-1.5	-2.2	-0.8	-0.
Jun	1.2	-0.8	-0.9	-0.5	-0.
Jul	3.2	0.4	0.8	-0.2	-0.
Aug	2.4	1.3	2.1	0.2	
Sep	2.9	1.2	1.8	0.2	0.
Oct	1.0	0.6	1.0	-0.1	-0.
Nov	1.4	-0.6	-0.4	-0.6	-1.
Dec	-0.8	-0.3	0.2	-0.8	-1.3

1 Indices reflect values measured at basic prices, which exclude "taxes less a indices reliect values integrated at basic prices, which exclude taxes less subsidies on products<sup>a</sup>.
2 Estimates cannot be regarded as accurate to the last digit shown.
3 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
4 A complete run of data is available on the ONS website as a

Time series dataset

IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

		المطا	ustry components (SICC	2007)	
		Buying, selling	ustry components (SIC2	Real estate	Professional
	Real estate	and renting of own or leased	Imputed	activities on fee or	scientific and technica
	activities	real estate	rent	contract basis	activities
omponent	L	68.1-2	68.2lmp	68.3	N
016 weights	176	48	123	5	95
0015	S2LM	S2LN	S2LO	S2LP	S2LC
2015	98.0	98.6	97.7	100.7	96.7
2016	100.0	100.0	100.0	100.0	100.0
2017	99.0	101.0	98.1	102.1	104.5
2018	99.6 100.3	102.7	98.4 98.9	100.1	109.7
2019	100.3	103.9	98.9	101.3	111.8
2017 Dec	99.2	102.0	98.0	101.4	107.1
2018 Jan	99.4	102.3	98.2	101.4	108.6
Feb	99.5	102.4	98.3	101.7	107.1
Mar	99.6	102.5	98.4	101.4	108.0
Apr	99.7	102.7	98.5	99.3	109.0
May	99.8	103.0	98.6	98.1	109.0
Jun	99.7	102.4	98.6	101.4	108.8
Jul	99.7	102.6	98.6	99.7	110.2
Aug	99.6	102.5	98.5	99.7	110.3
Sep	99.5	102.5	98.5	97.8	110.3
Oct	99.8	103.3	98.4	100.3	111.4
Nov	99.7	102.8	98.4	100.7	112.0
Dec	99.8	103.1	98.5	100.3	110.9
2019 Jan	99.9	103.0	98.6	101.9	109.8
Feb	100.0	102.9	98.7	103.8	110.9
Mar	100.1	103.6	98.7	100.0	110.9
Apr	100.2	104.0	98.7	99.5	110.3
May	100.4	104.3	98.7	102.5	110.4
Jun	100.2	104.1	98.9	97.3	112.1
Jul	100.3	103.5	99.0	101.1	112.5
Aug	100.3	103.6	99.1	99.9	112.8
Sep	100.4	103.7	99.1	101.9	112.6
Oct	100.4	104.6	99.1	101.0	113.6
Nov	100.7	104.0	99.0	102.0	112.5
Dec	100.8	104.4	99.0	102.1	
Dec	100.7	104.0	55.0	103.2	112.9
ercentage change, latest ye	ear on previous year S22S	S22T	S22U	S22V	S22W
0015					
2015	2.8	4.1	2.1	8.3	4.8
2016	2.0	1.4	2.4	-0.7	3.4
2017	-1.0	1.0	-1.9	2.1	4.5
2018	0.6	1.6	0.3	-2.0	4.9
2019	0.7	1.2	0.4	1.1	1.9
			0.1		
ercentage change, latest m					
	S27I	S27J	S27K	S27L	S27N
2017 Dec	S27I -1.1	S27J 2.2	S27K -2.4	-2.0	S27N 4.5
2017 Dec 2018 Jan	S27I -1.1 -0.3	S27J 2.2 1.5	S27K -2.4 -0.9	-2.0 -2.3	S27M 4.5 4.7
2017 Dec 2018 Jan Feb	S27I -1.1 -0.3 0.2	S27J 2.2 1.5 2.0	S27K -2.4 -0.9 -0.4	-2.0 -2.3 -0.3	S27N 4.5 4.7 4.0
2017 Dec 2018 Jan Feb Mar	\$27I -1.1 -0.3 0.2 0.6	S27J 2.2 1.5 2.0 2.2	S27K -2.4 -0.9 -0.4 -0.1	-2.0 -2.3 -0.3 3.5	S27M 4.5 4.7 4.0 5.0
2017 Dec 2018 Jan Feb Mar Apr	S27I -1.1 -0.3 0.2 0.6 0.7	S27J 2.2 1.5 2.0 2.2 1.9	S27K -2.4 -0.9 -0.4 -0.1 0.3	-2.0 -2.3 -0.3 3.5 -0.2	S27N 4.5 4.7 4.6 5.6
2017 Dec 2018 Jan Feb Mar Apr May	S27I -1.1 -0.3 0.2 0.6 0.7 0.8	\$27J 2.2 1.5 2.0 2.2 1.9 2.1	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5	-2.0 -2.3 -0.3 3.5 -0.2 -4.7	S27N 4.5 4.0 5.0 6.5
2018 Jan Feb Mar Apr May Jun	S27I -1.1 -0.3 0.2 0.6 0.7	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7	-2.0 -2.3 -0.3 3.5 -0.2 -4.7 -1.3	S27M 4.5 4.7 4.0 5.0 6.5 5.7 4.5
2017 Dec 2018 Jan Feb Mar Apr May	S27I -1.1 -0.3 0.2 0.6 0.7 0.8	\$27J 2.2 1.5 2.0 2.2 1.9 2.1	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5	-2.0 -2.3 -0.3 3.5 -0.2 -4.7	S27N 4.5 4.0 5.0 6.5
2017 Dec 2018 Jan Feb Mar Apr May Jun	S271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7	-2.0 -2.3 -0.3 3.5 -0.2 -4.7 -1.3	S27M 4.5 4.7 4.0 5.0 6.5 5.7 4.5
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug	S27I -1.1 -0.2 0.6 0.7 0.8 0.9 0.9 0.7	\$27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8	-2.0 -2.3 -0.3 3.5 -0.2 -4.7 -1.3 -2.9 -3.3	S27M 4.5 4.7 5.0 6.5 5.7 4.5 5.4 5.4 5.4
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.7 0.7 0.8	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.8	-2.0 -2.3 -0.3 3.5 -0.2 -4.7 -1.3 -2.9 -3.3 -5.5	S27N 4.5 4.1 5.0 5.5 4.5 4.5 4.5 4.5 4.5
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.9 0.7 0.8 0.8	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.8 0.5	-2.0 -2.3 -0.3 3.5 -0.2 -4.7 -1.3 -2.9 -3.3 -5.5 -2.6	S27N 4.5 4.6 5.0 6.5 5.5 4.5 4.5 4.5 4.5 5.5 5.5 5.5 5.5 5
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.9 0.9 0.7 0.8 0.8 0.5	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9 1.0	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.8 0.8 0.8 0.5 0.4	-2.0 -2.3 -0.3 3.5 -0.2 -4.7 -1.3 -2.9 -3.3 -5.5 -2.6 -2.6	S27N 4.5 4.7 4.0 5.0 6.5 5.7 4.5 5.4 5.5 4.5 5.5 5.5
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.9 0.7 0.8 0.7 0.8 0.5 0.6	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9 1.0 1.1	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.4 0.4	-2.0 -2.3 -0.3 3.5 -0.2 -4.7 -1.3 -2.9 -3.3 -5.5 -2.6 -2.6 -1.0	S27N 4.( 4.7 5.0 6.( 5.7 4.( 5.7 4.( 5.7 4.( 5.7 5.7 4.( 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.7 0.8 0.9 0.7 0.8 0.8 0.8 0.5 0.5	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9 1.0 1.1 0.7	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.8 0.5 0.4 0.4 0.4 0.4	-2.0 -2.3 -0.3 3.5 -0.2 -4.7 -1.3 -2.9 -3.3 -5.5 -2.6 -2.6 -2.6 -1.0 0.5	S27M 4.5 4.6 5.0 6.5 5.5 4.9 4.9 5.0 5.0 5.0 5.0 3.0 0 1.0
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.9 0.9 0.7 0.8 0.8 0.5 0.5 0.5	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9 1.0 1.1 0.7 0.5	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.8 0.8 0.8 0.5 0.4 0.4 0.4 0.4	-2.0 -2.3 -0.3 3.5 -0.2 -4.7 -1.3 -2.9 -3.3 -5.5 -2.6 -2.6 -1.0 0.5 2.0	S27M 4.5 5.0 6.5 5.0 4.5 4.5 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.7 0.8 0.7 0.8 0.5 0.6 0.5 0.5 0.4	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9 1.0 1.1 0.5 1.1	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.5 0.4 0.4 0.4 0.3	-2.0 -2.3 -0.3 3.5 -0.2 -4.7 -1.3 -2.9 -3.3 -5.5 -2.6 -2.6 -1.0 0.5 2.0 -1.4	S27M 4.5 4.7 4.0 5.0 6.5 5.7 4.5 5.7 4.5 5.7 5.7 5.7 3.0 1.0 3.0 2.7
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.7 0.8 0.8 0.5 0.6 0.5 0.5 0.4 0.5	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9 1.0 1.1 0.7 0.5 1.1 1.2	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.8 0.5 0.4 0.4 0.4 0.4 0.4 0.3 0.2	-2.0 -2.3 -0.3 3.5 -0.2 -4.7 -1.3 -2.9 -3.3 -5.5 -2.6 -2.6 -1.0 0.5 2.0 -1.4 0.2	S27M 4.5 4.6 5.0 6.5 5.5 5.5 5.5 5.0 5.0 5.0 5.0 5.0 3.0 1.0 3.0 2.7 1.1
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.7 0.8 0.7 0.8 0.5 0.6 0.5 0.5 0.4	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9 1.0 1.1 0.5 1.1	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.5 0.4 0.4 0.4 0.3	-2.0 -2.3 -0.3 3.5 -0.2 -4.7 -1.3 -2.9 -3.3 -5.5 -2.6 -2.6 -1.0 0.5 2.0 -1.4	S27M 4.1 4.1 5.1 6.1 5.1 5.1 5.1 5.1 5.1 5.1 3.1 1.1 3.1 1.1 3.1 1.1 1.1
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.7 0.8 0.8 0.5 0.6 0.5 0.5 0.4 0.5	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9 1.0 1.1 0.7 0.5 1.1 1.2	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.8 0.5 0.4 0.4 0.4 0.4 0.4 0.3 0.2	-2.0 -2.3 -0.3 3.5 -0.2 -4.7 -1.3 -2.9 -3.3 -5.5 -2.6 -2.6 -1.0 0.5 2.0 -1.4 0.2	S27M 4.5 4.7 5.0 6.5 4.5 5.7 4.5 5.7 3.0 1.0 3.1 2.7 1.1
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.9 0.7 0.8 0.8 0.5 0.6 0.5 0.6 0.5 0.4 0.5 0.6 0.5 0.5	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9 1.0 1.1 0.7 0.5 1.1 1.2 1.2 1.7	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.5 0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.1	-2.0 -2.3 -0.3 3.5 -0.2 -4.7 -1.3 -2.9 -3.3 -5.5 -2.6 -2.6 -1.0 0.5 2.0 -1.4 0.2 4.5 -4.0	S27M 4.5 4.7 4.0 5.0 6.5 5.7 4.5 5.6 5.7 3.6 1.0 3.9 2.7 1.1 1.3 3.3
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.9 0.7 0.8 0.5 0.6 0.5 0.6 0.5 0.4 0.5 0.6 0.5 0.6 0.5	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9 1.0 1.1 0.7 0.5 1.1 1.2 1.2 1.2 1.7 0.8	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.5 0.7 0.8 0.8 0.5 0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.1 0.2 0.4	$\begin{array}{c} -2.0\\ -2.3\\ -0.3\\ 3.5\\ -0.2\\ -4.7\\ -1.3\\ -2.9\\ -3.3\\ -5.5\\ -2.6\\ -2.6\\ -2.6\\ -1.0\\ 0.5\\ 2.0\\ -1.4\\ 0.2\\ 4.5\\ -4.0\\ 1.4\end{array}$	S27M 4.1 4.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.7 0.8 0.9 0.9 0.7 0.8 0.8 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.6 0.5 0.6 0.5 0.6 0.7	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9 1.0 1.1 0.7 0.5 1.1 1.2 1.2 1.2 1.7 0.8 1.1	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.5 0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.1 0.2 0.1 0.2 0.4 0.6	$\begin{array}{c} -2.0\\ -2.3\\ -0.3\\ 3.5\\ -0.2\\ -4.7\\ -1.3\\ -2.9\\ -3.3\\ -5.5\\ -2.6\\ -2.6\\ -2.6\\ -2.6\\ -1.0\\ 0.5\\ 2.0\\ -1.4\\ 0.2\\ 4.5\\ -4.0\\ 1.4\\ 0.2\end{array}$	S27M 4.1 4.1 5.1 6.2 5. 4.5 5. 4.5 5. 5. 3.0 1.0 1.0 3.2 1.1 1.3 3.2 2.2
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug Sep	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.9 0.7 0.8 0.5 0.6 0.5 0.6 0.5 0.5 0.4 0.5 0.5 0.5 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9 1.0 1.1 0.7 0.5 1.1 1.2 1.2 1.7 0.8 1.1 1.1	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.5 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.1 0.2 0.1 0.2 0.4 0.2 0.7	$\begin{array}{c} -2.0\\ -2.3\\ -0.3\\ 3.5\\ -0.2\\ -4.7\\ -1.3\\ -2.9\\ -3.3\\ -5.5\\ -2.6\\ -2.6\\ -2.6\\ -1.0\\ 0.5\\ 2.0\\ -1.4\\ 0.2\\ 4.5\\ -4.0\\ 1.4\\ 0.2\\ 4.2\end{array}$	S27M 4.5 4.7 4.0 5.0 6.5 5.7 4.5 5.6 5.7 4.5 5.7 5.6 5.7 3.0 1.0 1.0 3.9 2.7 1.1 3.2 2.7 2.2 2.1
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug Sep Oct	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.9 0.7 0.8 0.5 0.6 0.5 0.6 0.5 0.5 0.4 0.5 0.6 0.5 0.5 0.6 0.7 0.9 0.9 0.9	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9 1.0 1.1 0.7 0.5 1.1 1.2 1.2 1.7 0.8 1.1 1.2 1.7 0.8 1.1 1.3	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.5 0.7 0.8 0.8 0.5 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.1 0.2 0.4 0.2 0.7 0.7 0.7	$\begin{array}{c} -2.0\\ -2.3\\ -0.3\\ 3.5\\ -0.2\\ -4.7\\ -1.3\\ -2.9\\ -3.3\\ -5.5\\ -2.6\\ -2.6\\ -2.6\\ -2.6\\ -1.0\\ 0.5\\ 2.0\\ -1.4\\ 0.2\\ 4.5\\ -4.0\\ 1.4\\ 0.2\\ 4.5\\ -4.0\\ 1.4\\ 0.2\\ 4.5\\ -4.0\\ 1.4\\ 0.2\\ 4.5\\ -4.0\\ 1.4\\ 0.2\\ 4.5\\ -4.0\\ 1.4\\ 0.2\\ 4.5\\ -4.0\\ 1.4\\ 0.2\\ 4.2\\ 1.7\end{array}$	S27M 4.5 4.6 5.0 6.5 5.5 4.5 5.6 5.6 5.6 5.6 5.6 3.6 3.6 1.0 3.9 2.7 1.1 1.5 3.2 2.2 2.2 1.7 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug Sep	\$271 -1.1 -0.3 0.2 0.6 0.7 0.8 0.9 0.9 0.9 0.7 0.8 0.5 0.6 0.5 0.6 0.5 0.5 0.4 0.5 0.5 0.5 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	S27J 2.2 1.5 2.0 2.2 1.9 2.1 1.6 1.7 1.0 1.8 1.9 1.0 1.1 0.7 0.5 1.1 1.2 1.2 1.7 0.8 1.1 1.1	S27K -2.4 -0.9 -0.4 -0.1 0.3 0.5 0.7 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.5 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.1 0.2 0.1 0.2 0.4 0.2 0.7	$\begin{array}{c} -2.0\\ -2.3\\ -0.3\\ 3.5\\ -0.2\\ -4.7\\ -1.3\\ -2.9\\ -3.3\\ -5.5\\ -2.6\\ -2.6\\ -2.6\\ -1.0\\ 0.5\\ 2.0\\ -1.4\\ 0.2\\ 4.5\\ -4.0\\ 1.4\\ 0.2\\ 4.2\end{array}$	S27M 4.5 4.7 4.0 5.0 6.5 5.7 4.5 5.6 5.7 4.5 5.7 5.6 5.7 3.0 1.0 1.0 3.9 2.7 1.1 3.2 2.7 2.2 2.1

Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".
 Estimates cannot be regarded as accurate to the last digit shown.
 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
 A complete run of data is available on the ONS website as a <u>Time series dataset</u>

IOS: Index of Services Chained volume indices of gross value added <sup>1,2,3</sup>

seasonally adjusted 2016 = 100

			ustry components (SIC200		
		Buying, selling		Real estate	Professional
		and renting		activities	scientific and
	Real estate	of own or leased	Imputed	on fee or	technica
	activities	real estate	rent	contract basis	activities
Component	L	68.1-2	68.2lmp	68.3	N
2016 weights	176	48	123	5	95
ercentage change, latest n	nonth on previous month				
gg-,	S22S	S22T	S22U	S22V	S22W
2017 Dec	-	0.2	0.1	-2.0	0.4
2018 Jan	0.2	0.3	0.1	0.1	1.5
Feb	0.1	0.1	0.1	0.3	-1.4
Mar	0.1	0.1	0.1	-0.3	0.9
	0.1	0.2	0.1	-0.5	
Apr					0.9
May	0.1	0.3	0.1	-1.2	
Jun	-0.1	-0.6	-	3.4	-0.2
Jul	-	0.3	-	-1.7	1.0
Aug	-0.1	-0.1	-0.1	-	0.1
Sep	-0.1	-	-0.1	-2.0	0.0
Oct	0.2	0.7	-0.1	2.6	0.7
Nov	-0.1	-0.4	-	0.4	0.
Dec	0.1	0.3	0.1	-0.4	-1.(
2019 Jan	0.1	-0.1	0.1	1.6	-1.1
Feb	0.1	-0.1	0.1	1.8	1.0
Mar	0.1	0.7	-	-3.7	
Apr	0.1	0.4	-	-0.5	-0.6
May	0.2	0.3	-	3.0	0.1
Jun	-0.1	-0.2	0.1	-5.0	1.6
Jul	0.1	-0.6	0.1	3.8	0.3
	0.1	0.1	0.1	-1.2	0.0
Aug			0.1		
Sep	0.1	0.1	-	2.0	-0.1
Oct	0.2	0.9	-	0.1	0.9
Nov	-0.1	-0.2	-	0.1	-0.9
Dec	0.1	0.4	-	1.1	0.3
ercentage change, latest 3	months on same 3 mont	hs a year ago			
	S2GW	S2GX	S2GY	S2GZ	S2H2
2017 Dec	-1.5	1.9	-3.0	2.5	4.6
2018 Jan	-1.0	1.8	-2.2	0.1	4.
Feb	-0.4	1.9	-1.2	-1.5	4.6
Mar	0.2	1.9	-0.5	0.3	4.0
					4.
Apr	0.5 0.7	2.0 2.1	-0.1	1.0	
Maria					
May			0.3	-0.5	
Jun	0.8	1.8	0.5	-2.1	5.4
	0.8 0.9	1.8 1.8	0.5 0.7	-2.1 -3.0	5.4 5.0
Jun	0.8	1.8	0.5	-2.1	5.4 5.0
Jun Jul Aug	0.8 0.9	1.8 1.8	0.5 0.7	-2.1 -3.0	5. 5. 5.
Jun Jul Aug Sep	0.8 0.9 0.8 0.8	1.8 1.8 1.4 1.5	0.5 0.7 0.7 0.8	-2.1 -3.0 -2.5 -3.9	5. 5. 5. 4.
Jun Jul Aug Sep Oct	0.8 0.9 0.8 0.8 0.8	1.8 1.8 1.4 1.5 1.6	0.5 0.7 0.7 0.8 0.7	-2.1 -3.0 -2.5 -3.9 -3.8	5. 5. 5. 4. 4.
Jun Jul Aug Sep Oct Nov	0.8 0.9 0.8 0.8 0.8 0.8	1.8 1.8 1.4 1.5 1.6 1.5	0.5 0.7 0.7 0.8 0.7 0.6	-2.1 -3.0 -2.5 -3.9 -3.8 -3.6	5. 5. 5. 4. 4. 5.
Jun Jul Aug Sep Oct Nov Dec	0.8 0.9 0.8 0.8 0.8 0.7 0.6	1.8 1.8 1.4 1.5 1.6 1.5 1.3	0.5 0.7 0.8 0.7 0.6 0.4	-2.1 -3.0 -2.5 -3.9 -3.8 -3.6 -2.1	5. 5. 5. 4. 4. 5. 5.
Jun Jul Aug Sep Oct Nov Dec 2019 Jan	0.8 0.9 0.8 0.8 0.8 0.7 0.6 0.5	1.8 1.8 1.4 1.5 1.6 1.5 1.3 1.0	0.5 0.7 0.7 0.8 0.7 0.6 0.4 0.4	-2.1 -3.0 -2.5 -3.9 -3.8 -3.6 -2.1 -1.1	5. 5. 5. 4. 5. 5. 3. 3.
Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb	0.8 0.9 0.8 0.8 0.7 0.6 0.5 0.5	1.8 1.4 1.5 1.6 1.5 1.3 1.0 0.8	0.5 0.7 0.8 0.7 0.6 0.4 0.4 0.4	-2.1 -3.0 -2.5 -3.9 -3.8 -3.6 -2.1 -1.1 0.5	5. 5. 5. 4. 4. 5. 4. 3. 2.
Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar	0.8 0.9 0.8 0.8 0.8 0.7 0.6 0.5 0.5 0.5	1.8 1.8 1.4 1.5 1.6 1.5 1.3 1.0 0.8 0.8	0.5 0.7 0.7 0.8 0.7 0.6 0.4 0.4 0.4 0.4 0.4	-2.1 -3.0 -2.5 -3.9 -3.8 -3.6 -2.1 -1.1 0.5 0.4	5. 5. 5. 4. 4. 5. 3. 2. 2.
Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb	0.8 0.9 0.8 0.8 0.7 0.6 0.5 0.5	1.8 1.4 1.5 1.6 1.5 1.3 1.0 0.8	0.5 0.7 0.8 0.7 0.6 0.4 0.4 0.4	-2.1 -3.0 -2.5 -3.9 -3.8 -3.6 -2.1 -1.1 0.5	5. 5. 5. 4. 5. 3. 3. 2.
Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr	0.8 0.9 0.8 0.8 0.7 0.6 0.5 0.5 0.5 0.5	1.8 1.8 1.4 1.5 1.6 1.5 1.3 1.0 0.8 0.8 0.9	0.5 0.7 0.8 0.7 0.6 0.4 0.4 0.4 0.4 0.4 0.4 0.3	-2.1 -3.0 -2.5 -3.9 -3.8 -3.6 -2.1 -1.1 0.5 0.4 0.3	5. 5. 4. 4. 3. 3. 2. 2. 2.
Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May	0.8 0.9 0.8 0.8 0.7 0.6 0.5 0.5 0.5 0.5 0.5 0.5	1.8 1.8 1.4 1.5 1.6 1.5 1.3 1.0 0.8 0.8 0.9 1.2	0.5 0.7 0.8 0.7 0.6 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.2	-2.1 -3.0 -2.5 -3.9 -3.8 -3.6 -2.1 -1.1 0.5 0.4 0.3 1.0	5. 5. 4. 4. 5. 3. 2. 2. 2. 1.
Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun	0.8 0.9 0.8 0.8 0.7 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	1.8 1.8 1.4 1.5 1.6 1.5 1.3 1.0 0.8 0.8 0.9 1.2 1.4	0.5 0.7 0.8 0.7 0.6 0.4 0.4 0.4 0.4 0.4 0.4 0.2 0.2	-2.1 -3.0 -2.5 -3.9 -3.8 -3.6 -2.1 -1.1 0.5 0.4 0.3 1.0 0.2	5. 5. 5. 4. 5. 5. 5. 2. 2. 2. 1. 1.
Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul	0.8 0.9 0.8 0.8 0.7 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	1.8 1.8 1.4 1.5 1.6 1.5 1.3 1.0 0.8 0.8 0.9 1.2 1.4 1.2	0.5 0.7 0.8 0.7 0.6 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.2 0.2 0.3	-2.1 -3.0 -2.5 -3.9 -3.8 -3.6 -2.1 -1.1 0.5 0.4 0.3 1.0 0.2 0.6	5. 5. 5. 4. 4. 4. 5. 5. 4. 3. 2. 2. 2. 1. 1. 1. 2.
Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug	0.8 0.9 0.8 0.7 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	1.8 1.8 1.4 1.5 1.6 1.5 1.3 1.0 0.8 0.9 1.2 1.4 1.2 1.2	0.5 0.7 0.8 0.7 0.6 0.4 0.4 0.4 0.4 0.4 0.3 0.2 0.2 0.2 0.3 0.4	-2.1 -3.0 -2.5 -3.9 -3.8 -3.6 -2.1 -1.1 0.5 0.4 0.3 1.0 0.2 0.6 -0.8	5. 5. 4. 4. 5. 3. 2. 2. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug Sep	0.8 0.9 0.8 0.8 0.7 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	1.8 1.8 1.4 1.5 1.6 1.5 1.3 1.0 0.8 0.8 0.9 1.2 1.4 1.2 1.2 1.0	0.5 0.7 0.7 0.8 0.7 0.6 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.2 0.2 0.2 0.3 0.4 0.6	-2.1 -3.0 -2.5 -3.9 -3.8 -3.6 -2.1 -1.1 0.5 0.4 0.3 1.0 0.2 0.6 -0.8 1.9	5. 5. 5. 4. 4. 5. 4. 3. 2. 2. 1. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jun Jun Jun Jul Aug Sep Oct	0.8 0.9 0.8 0.8 0.7 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	1.8 1.8 1.4 1.5 1.6 1.5 1.3 1.0 0.8 0.9 1.2 1.4 1.2 1.2 1.0 1.2	0.5 0.7 0.7 0.8 0.7 0.6 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.2 0.2 0.3 0.4 0.3 0.2 0.3 0.4 0.5 0.7	-2.1 -3.0 -2.5 -3.9 -3.8 -3.6 -2.1 -1.1 0.5 0.4 0.3 1.0 0.2 0.6 -0.8 1.9 2.0	5. 5. 5. 4. 4. 5. 4. 3. 3. 2. 2. 2. 1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2.
Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug Sep	0.8 0.9 0.8 0.8 0.7 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	1.8 1.8 1.4 1.5 1.6 1.5 1.3 1.0 0.8 0.8 0.9 1.2 1.4 1.2 1.2 1.0	0.5 0.7 0.7 0.8 0.7 0.6 0.4 0.4 0.4 0.4 0.4 0.4 0.3 0.2 0.2 0.2 0.3 0.4 0.6	-2.1 -3.0 -2.5 -3.9 -3.8 -3.6 -2.1 -1.1 0.5 0.4 0.3 1.0 0.2 0.6 -0.8 1.9	5.5 5.4 5.0 5.0 5.0 5.0 5.0 4.5 3.3 2.7 2.4 2.4 2.4 2.4 2.4 2.1 1.1 1.5 2.5 2.0 2.0 2.0 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1

1 Indices reflect values measured at basic prices, which exclude "taxes less

Indices reliect values measured at basic prices, which exclude taxes less subsidies on products".
 Estimates cannot be regarded as accurate to the last digit shown.
 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
 A complete run of data is available on the ONS website as a <u>Time series dataset</u>

IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

		l	ndustry components (SIC200	07)	-
		Buying, selling		Real estate	Professional
		and renting		activities	scientific and
	Real estate	of own or leased	Imputed	on fee or	technica
	activities	real estate	rent	contract basis	activities
Component	L	68.1-2	68.2Imp	68.3	Ν
2016 weights	176	48	123	5	9
Percentage change, latest	3 months on previous 3	months			
	S2C8	S2C9	S2CA	S2CB	S2C0
2017 Dec	0.3	0.7	0.2	-0.5	1.
2018 Jan	0.4	0.8	0.3	-1.1	1.
Feb	0.4	0.9	0.3	-1.7	1.4
Mar	0.4	0.7	0.3	-1.0	1.4
Apr	0.4	0.5	0.4	-1.2	0.
May	0.3	0.5	0.4	-1.9	1.
Jun	0.2	0.3	0.3	-1.9	0.
Jul	0.1	0.1	0.2	-1.1	1.
Aug	-	-0.3	0.1	0.7	1.
Sep	-0.1	-0.1	-0.1	-0.5	1.
Oct	-0.1	0.1	-0.1	-0.5	1.4
Nov	-	0.4	-0.2	-0.7	1.
Dec	0.1	0.5	-0.1	1.4	1.
2019 Jan	0.1	0.2	-	1.7	0.
Feb	0.2	0.1	0.2	2.4	-0.
Mar	0.2	0.1	0.2	1.5	-0.
Apr	0.3	0.5	0.2	0.1	-0.3
May	0.3	0.9	0.1	-1.3	
Jun	0.3	0.9	0.1	-2.1	0
Jul	0.2	0.4	0.2	-0.8	0.
Aug	0.1	-0.2	0.3	-1.2	1.
Sep	0.1	-0.5	0.3	1.2	1.
Oct	0.2	-	0.2	1.0	1.
Nov	0.3	0.5	0.1	2.6	0.
Dec	0.3	1.0	-	1.5	0.3

1 Indices reflect values measured at basic prices, which exclude "taxes less

Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".
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IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

			Industry components (SIC	2007)	
		Accounting	Activities of head offices;	Architectural	Scientifi
	Legal	and auditing	management	and engineering	research and
	activities	activities	consultancy	activities	developmen
Component	69.1	69.2	70	71	7
016 weights	17	15	17	17	
le re neighte	S2LR	S2LS	S2LT	S2LU	S2L
2015	100.6	99.0	89.8	97.8	92.
2016	100.0	100.0	100.0	100.0	100.
2017	104.9	106.2	106.6	102.5	106.
2018	108.2	116.8	108.4	108.8	108.
2019	110.4	122.7	112.2	103.1	119.
2017 Dec	104.5	111.6	109.1	106.9	112.
2018 Jan	108.0	116.2	107.0	109.3	108.
Feb	105.5	112.4	106.2	107.6	106.
Mar	108.6	112.8	105.9	108.3	104.
Apr	108.7	116.2	107.3	109.5	107.
May	109.1	115.3	107.5	109.5	106.
Jun	109.5	113.7	107.6	107.6	105.
Jul	109.5	116.2	107.4	111.8	108.
Aug	106.9	118.7	108.1	110.7	109.3
Sep	107.2	120.4	109.5	108.2	111.
		120.4		107.6	109.
Oct	107.6		110.8		
Nov	107.5	119.5	112.2	109.4	113.
Dec	110.3	116.7	111.2	105.9	110.
2019 Jan	106.8	115.5	110.3	105.5	112.
Feb	108.5	116.9	109.3	105.8	122.
Mar	109.3	119.6	109.7	105.3	119.
Apr	109.1	118.7	109.0	102.2	117.
May	109.5	121.8	111.2	102.4	114.0
Jun	110.1	123.3	113.4	104.5	120.0
Jul	108.6	124.9	114.2	101.1	121.
Aug	112.2	125.4	114.8	102.6	118.
Sep	111.1	124.6	115.0	101.5	124.:
Oct	112.6	127.0	113.6	103.4	128.
Nov	113.6	126.0	113.1	101.3	119.
Dec	113.7	128.6	113.2	101.7	118.
Percentage change, latest ye	ear on previous vear				
crocinage onunge, latest ye	S22X	S22Y	S22Z	S232	S23
2015	7.2	4.4	8.9		9.
2016	-0.6	1.0	11.4	2.3	7.0
2017	4.9	6.2		2.5	6.0
			6.6		
2018	3.2	10.0	1.6	6.2	2.3
	2.1	5.0	3.5	-5.2	10.3
2019					
		ear ago			
ercentage change, latest m	nonth on same month a y S27N	S27O	S27P	S27Q	
Percentage change, latest m 2017 Dec	nonth on same month a y S27N 1.9	S27O 17.4	3.4	5.9	6.
Percentage change, latest m 2017 Dec 2018 Jan	nonth on same month a y S27N 1.9 1.3	S27O 17.4 12.1	3.4 0.4	5.9 7.7	6. -0.
Percentage change, latest m 2017 Dec 2018 Jan Feb	nonth on same month a y S27N 1.9 1.3 3.2	S27O 17.4 12.1 10.0	3.4 0.4 0.8	5.9 7.7 5.9	6.: -0. 2.:
ercentage change, latest m 2017 Dec 2018 Jan	nonth on same month a y S27N 1.9 1.3	S27O 17.4 12.1	3.4 0.4	5.9 7.7	6. -0. 2.
Percentage change, latest m 2017 Dec 2018 Jan Feb	nonth on same month a y S27N 1.9 1.3 3.2	S27O 17.4 12.1 10.0	3.4 0.4 0.8	5.9 7.7 5.9	6. -0. 2. -3.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar	nonth on same month a y S27N 1.9 1.3 3.2 4.0	\$270 17.4 12.1 10.0 8.3	3.4 0.4 0.8 0.5	5.9 7.7 5.9 6.6	6. -0. 2. -3. 7.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr	nonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4	\$270 17.4 12.1 10.0 8.3 14.9	3.4 0.4 0.8 0.5 1.8	5.9 7.7 5.9 6.6 8.2	6. -0. 2. -3. 7. 6.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun	nonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3	S270 17.4 12.1 10.0 8.3 14.9 8.1 7.3	3.4 0.4 0.5 1.8 2.7 3.2	5.9 7.7 5.9 6.6 8.2 6.8 6.7	6. -0. 2. -3. 7. 6. 0.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul	nonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8	\$270 17.4 12.1 10.0 8.3 14.9 8.1 7.3 6.2	3.4 0.4 0.8 0.5 1.8 2.7 3.2 2.7	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5	6. -0. 2. -3. 7. 6. 0. 2.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug	nonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1	\$270 17.4 12.1 10.0 8.3 14.9 8.1 7.3 6.2 9.9	3.4 0.4 0.5 1.8 2.7 3.2 2.7 2.5	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6	6. -0. 2. -3. 7. 6. 0. 2. 2.
Vercentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep	nonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9	\$270 17.4 12.1 10.0 8.3 14.9 8.1 7.3 6.2 9.9 13.1	3.4 0.4 0.5 1.8 2.7 3.2 2.7 2.5 2.1	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3	6. -0. 2. -3. -7. 6. 0. 2. 2. 3.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jun Jul Aug Sep Oct	nonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9 1.9	\$270 17.4 12.1 10.0 8.3 14.9 8.1 7.3 6.2 9.9 13.1 16.5	3.4 0.8 0.5 1.8 2.7 3.2 2.7 2.5 2.1 0.1	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3 4.5	6. -0. 2. -3. 7. 6. 0. 2. 2. 3. 3.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov	nonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.3 4.3 4.8 2.1 1.9 1.9 1.0	\$270 17.4 12.1 10.0 8.3 14.9 8.1 7.3 6.2 9.9 13.1 16.5 9.9	3.4 0.4 0.5 1.8 2.7 3.2 2.7 2.5 2.1 0.1 1.1	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3 4.5 4.5	6. -0. 2. -3. 7. 6. 0. 2. 2. 3. 3. 5.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	nonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9 1.9 1.0 5.6	\$270 17.4 12.1 10.0 8.3 14.9 8.1 7.3 6.2 9.9 13.1 16.5 9.9 4.5	3.4 0.4 0.5 1.8 2.7 3.2 2.7 2.5 2.1 0.1 1.1 2.0	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3 4.5 4.5 4.5 0.9	6. -0. 2. -3. -7. 6. 0. 2. 2. 3. 3. 5. -2.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan	nonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9 1.9 1.9 1.0 5.6 -1.1	S270 17.4 12.1 10.0 8.3 14.9 8.1 7.3 6.2 9.9 13.1 16.5 9.9 4.5 -0.6	3.4 0.8 0.5 1.8 2.7 2.5 2.1 0.1 1.1 2.0 3.1	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3 4.5 4.5 4.5 -0.9 -3.5	6. -0. 2. -3. 7. 6. 0. 2. 2. 3. 3. 5. -4.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	nonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9 1.9 1.0 5.6	\$270 17.4 12.1 10.0 8.3 14.9 8.1 7.3 6.2 9.9 13.1 16.5 9.9 4.5	3.4 0.4 0.5 1.8 2.7 3.2 2.7 2.5 2.1 0.1 1.1 2.0	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3 4.5 4.5 4.5 0.9	6. -0. 2. -3. 7. 6. 0. 2. 2. 3. 3. 5. -4.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb	tonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9 1.9 1.9 1.0 5.6 -1.1 2.9	S270 17.4 12.1 10.0 8.3 14.9 8.1 7.3 6.2 9.9 13.1 16.5 9.9 4.5 -0.6 4.1	3.4 0.4 0.5 1.8 2.7 3.2 2.7 2.5 2.1 0.1 1.1 2.0 3.1 2.9	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3 4.5 4.5 4.5 -0.9 -3.5 -1.7	6. -0. 2. -3. 7, 6. 2. 2. 2. 3. 3. 5. -2. 4. 4.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar	nonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9 1.0 5.6 -1.1 2.9 0.6	S270 17.4 12.1 10.0 8.3 14.9 8.1 7.3 6.2 9.9 13.1 16.5 9.9 4.5 -0.6 4.1 6.0	3.4 0.4 0.5 1.8 2.7 3.2 2.7 2.5 2.1 0.1 1.1 2.0 3.1 2.9 3.5	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3 4.5 4.5 4.5 -0.9 -3.5 -1.7 -2.7	6. -0. 2. -3. 7. 6. 0. 2. 2. 3. 3. 5. -2. 4. 15. 14.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr	tonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9 1.9 1.0 5.6 -1.1 2.9 0.6 0.4	$\begin{array}{c} S270\\ 17.4\\ 12.1\\ 10.0\\ 8.3\\ 14.9\\ 8.1\\ 7.3\\ 6.2\\ 9.9\\ 13.1\\ 16.5\\ 9.9\\ 13.1\\ 16.5\\ 9.9\\ 4.5\\ -0.6\\ 4.1\\ 6.0\\ 2.2\end{array}$	3.4 0.8 0.5 1.8 2.7 3.2 2.7 2.5 2.1 0.1 1.1 2.0 3.1 2.9 3.5 1.5	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3 4.5 4.5 4.5 -0.9 -3.5 -1.7 -2.7 -6.7	6. -0. 2. -3. 7. 6. 0. 2. 3. 3. 5. -2. 4. 15. 14. 8.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May	tonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9 1.9 1.9 1.9 1.9 5.6 -1.1 2.9 0.6 0.4 0.3	$\begin{array}{c} S270\\ 17.4\\ 12.1\\ 10.0\\ 8.3\\ 14.9\\ 8.1\\ 7.3\\ 6.2\\ 9.9\\ 13.1\\ 16.5\\ 9.9\\ 4.5\\ -0.6\\ 4.1\\ 6.0\\ 2.2\\ 5.6\end{array}$	3.4 0.8 0.5 1.8 2.7 2.5 2.1 0.1 1.1 2.9 3.5 1.5 3.4	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3 4.5 4.5 -0.9 -3.5 -1.7 -2.7 -6.7	6. -0. 2. -3. 7. 6. 0. 2. 2. 2. 3. 3. 5. -2. 4. 15. 14. 8. 7.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun	tonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9 1.9 1.0 5.6 -1.1 2.9 0.6 0.4 0.3 0.6	$\begin{array}{c} S270\\ 17.4\\ 12.1\\ 10.0\\ 8.3\\ 14.9\\ 8.1\\ 7.3\\ 6.2\\ 9.9\\ 13.1\\ 16.5\\ 9.9\\ 4.5\\ -0.6\\ 4.1\\ 6.0\\ 2.2\\ 5.6\\ 8.5\\ \end{array}$	3.4 0.4 0.5 1.8 2.7 2.5 2.1 0.1 1.1 2.9 3.5 1.5 3.4 5.4	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3 4.5 4.5 4.5 -0.9 -3.5 -1.7 -2.7 -6.7 -6.4 -2.9	6. -0. 2. -3. 7, 6. 0. 2. 2. 2. 3. 3. 5. -2. 4. 15. 14. 8. 7, 7. 13.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul	tonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9 1.9 1.0 5.6 -1.1 2.9 0.6 0.4 0.3 0.6 -0.8	$\begin{array}{c} S270\\ 17.4\\ 12.1\\ 10.0\\ 8.3\\ 14.9\\ 8.1\\ 7.3\\ 6.2\\ 9.9\\ 13.1\\ 16.5\\ 9.9\\ 13.1\\ 16.5\\ 9.9\\ 4.5\\ -0.6\\ 4.1\\ 6.0\\ 2.2\\ 5.6\\ 8.5\\ 7.5\end{array}$	3.4 0.8 0.5 1.8 2.7 3.2 2.7 2.5 2.1 0.1 1.1 1.1 2.0 3.1 2.9 3.5 1.5 3.4 5.4 6.4	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3 4.5 4.5 4.5 -0.9 -3.5 -1.7 -2.7 -6.7 -6.4 -2.9 -9.5	6. -0. 2. -3. 7. 6. 0. 2. 2. 3. 3. 5. -2. 4. 15. 14. 8. 7. 13. 12.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug	tonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9 1.9 1.9 1.9 1.0 5.6 -1.1 2.9 0.6 0.4 0.3 0.6 -0.8 5.0	$\begin{array}{c} S270\\ 17.4\\ 12.1\\ 10.0\\ 8.3\\ 14.9\\ 8.1\\ 7.3\\ 6.2\\ 9.9\\ 13.1\\ 16.5\\ 9.9\\ 13.1\\ 16.5\\ 9.9\\ 4.5\\ -0.6\\ 4.1\\ 6.0\\ 2.2\\ 5.6\\ 8.5\\ 7.5\\ 5.6\end{array}$	3.4 0.8 0.5 1.8 2.7 2.5 2.1 0.1 1.1 2.9 3.5 1.5 3.4 5.4 6.4 6.2	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3 4.5 4.5 4.5 -0.9 -3.5 -1.7 -6.7 -6.4 -2.9 9.5 -7.3	6. -0. 2. -3. 7. 6. 0. 2. 2. 3. 3. 5. -2. 14. 15. 14. 8. 7. 13. 2. 2. 2. 3. 3. 5. -2. 2. 2. 3. 3. 5. -2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug Sep	tonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9 1.9 1.9 1.9 1.0 5.6 -1.1 2.9 0.6 0.4 0.3 0.6 -0.8 5.0 3.7	$\begin{array}{c} S270\\ 17.4\\ 12.1\\ 10.0\\ 8.3\\ 14.9\\ 8.1\\ 7.3\\ 6.2\\ 9.9\\ 13.1\\ 16.5\\ 9.9\\ 4.5\\ -0.6\\ 4.1\\ 6.0\\ 2.2\\ 5.6\\ 8.5\\ 7.5\\ 5.6\\ 3.5\end{array}$	3.4 0.4 0.5 1.8 2.7 2.5 2.1 0.1 1.1 2.9 3.5 1.5 3.4 5.4 6.2 5.1	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3 4.5 4.5 4.5 -0.9 -3.5 -1.7 -2.7 -6.7 -6.4 -2.9 -9.5 -7.3 -6.2	6. -0. 2. -3. 7, 6. 2. 2. 2. 3. 3. 5. -2. 4. 15. 14. 8. 7, 13. 12. 8. 11.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jun Jul Aug Sep Oct	tonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9 1.0 5.6 -1.1 2.9 0.6 0.4 0.4 0.3 0.6 -0.8 5.0 3.7 4.6	$\begin{array}{c} S270\\ 17.4\\ 12.1\\ 10.0\\ 8.3\\ 14.9\\ 8.1\\ 7.3\\ 6.2\\ 9.9\\ 13.1\\ 16.5\\ 9.9\\ 13.1\\ 16.5\\ 9.9\\ 4.5\\ -0.6\\ 4.1\\ 6.0\\ 2.2\\ 5.6\\ 8.5\\ 7.5\\ 5.6\\ 3.5\\ 2.6\end{array}$	3.4 0.8 0.5 1.8 2.7 3.2 2.7 2.5 2.1 0.1 1.1 1.1 2.0 3.1 2.0 3.1 2.9 3.5 1.5 3.4 6.4 6.4 6.2 5.1 2.6	$\begin{array}{c} 5.9\\ 7.7\\ 5.9\\ 6.6\\ 8.2\\ 6.8\\ 6.7\\ 10.5\\ 8.6\\ 5.3\\ 4.5\\ 4.5\\ 4.5\\ 4.5\\ -0.9\\ -3.5\\ -1.7\\ -2.7\\ -6.7\\ -6.4\\ -2.9\\ -9.5\\ -7.3\\ -6.2\\ -3.9\end{array}$	6 -0. 2. -3. 7. 6. 0. 2. 2. 3. 3. 3. 5. -2. 4. 15. 14. 15. 14. 15. 12. 8. 7. 12. 8. 11. 16.
Percentage change, latest m 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Sep Sep	tonth on same month a y S27N 1.9 1.3 3.2 4.0 2.4 5.5 4.3 4.8 2.1 1.9 1.9 1.9 1.9 1.0 5.6 -1.1 2.9 0.6 0.4 0.3 0.6 -0.8 5.0 3.7	$\begin{array}{c} S270\\ 17.4\\ 12.1\\ 10.0\\ 8.3\\ 14.9\\ 8.1\\ 7.3\\ 6.2\\ 9.9\\ 13.1\\ 16.5\\ 9.9\\ 4.5\\ -0.6\\ 4.1\\ 6.0\\ 2.2\\ 5.6\\ 8.5\\ 7.5\\ 5.6\\ 3.5\end{array}$	3.4 0.4 0.5 1.8 2.7 2.5 2.1 0.1 1.1 2.9 3.5 1.5 3.4 5.4 6.2 5.1	5.9 7.7 5.9 6.6 8.2 6.8 6.7 10.5 8.6 5.3 4.5 4.5 4.5 -0.9 -3.5 -1.7 -2.7 -6.7 -6.4 -2.9 -9.5 -7.3 -6.2	S27/ 6 -0. 2 -3. 7. 6 2. 2. 2. 3. 3. 5. -2. 14. 15. 14. 15. 14. 15. 14. 15. 14. 15. 14. 15. 14. 15. 14. 15. 14. 15. 14. 15. 15. 14. 15. 14. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15

Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".
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IOS: Index of Services Chained volume indices of gross value added <sup>1,2,3</sup>

seasonally adjusted 2016 = 100

			ndustry components (SIC2	007)	
			Activities of		
		Accounting	head offices;	Architectural	Scientific
	Legal	and auditing	management	and engineering	research and
	activities	activities	consultancy	activities	development
Component	69.1	69.2	70	71	72
2016 weights	17	15	17	17	9
2010 weights	<u> </u>	IJ	1/		3
Percentage change, latest m					
	S22X	S22Y	S22Z	S232	S233
2017 Dec	-1.8	2.7	-1.7	2.1	4.2
2018 Jan	3.4	4.0	-1.9	2.3	-3.5
Feb	-2.4	-3.3	-0.7	-1.5	-2.0
Mar	3.0	0.4	-0.3	0.6	-1.9
Apr	-	3.0	1.3	1.1	3.6
May	0.4	-0.8	0.1	-	-1.3
Jun	0.4	-1.4	0.1	-1.7	-0.6
Jul	0.1	2.3	-0.2	3.9	2.3
Aug	-2.4	2.2	0.2	-1.0	0.8
	-2.4		1.3		2.0
Sep		1.4		-2.3	
Oct	0.4	2.8	1.2	-0.6	-1.4
Nov	-0.1	-3.4	1.3	1.7	3.6
Dec	2.7	-2.3	-0.9	-3.2	-3.4
2019 Jan	-3.2	-1.0	-0.8	-0.4	2.7
Feb	1.6	1.2	-0.9	0.3	8.5
Mar	0.7	2.3	0.3	-0.4	-2.7
Apr	-0.2	-0.7	-0.6	-3.0	-1.5
May	0.3	2.6	2.0	0.2	-2.8
Jun	0.6	1.3	2.0	2.0	-2.0
Jul	-1.3	1.2	0.8	-3.2	1.2
Aug	3.2	0.4	0.5	1.5	-2.6
Sep	-0.9	-0.6	0.2	-1.1	5.0
Oct	1.3	1.9	-1.2	1.9	3.3
Nov	0.9	-0.8	-0.4	-2.0	-6.8
Dec	0.1	2.1	0.1	0.4	-1.2
Percentage change, latest 3	months on same 3 months	2 VO21 200			
ercentage change, latest 5	S2H3	S2H4	S2H5	S2H6	S2H7
2017 Dec	3.6	10.8	5.1	3.4	7.2
					4.7
2018 Jan	2.8	12.4	3.1	5.2	
Feb	2.1	13.1	1.5	6.5	2.9
Mar	2.8	10.1	0.6	6.8	-0.5
Apr	3.2	11.0	1.0	6.9	1.8
May	4.0	10.4	1.7	7.2	3.0
Jun	4.1	10.0	2.5	7.2	4.6
Jul	4.9	7.2	2.9	8.0	3.0
Aug	3.8	7.8	2.8	8.6	1.9
Sep	3.0	9.7	2.0	8.1	3.0
Oct	2.0	13.2	1.5	6.1	3.2
Nov	1.6	13.1	1.1	4.8	4.2
Dec	2.8	10.2	1.1	2.7	2.2
2019 Jan	1.8	4.5	2.1	-	2.6
Feb	2.4	2.6	2.7	-2.0	5.7
Mar	0.8	3.1	3.2	-2.7	11.3
Apr	1.3	4.1	2.7	-3.7	12.8
May	0.5	4.6	2.8	-5.3	10.0
Jun	0.4	5.4	3.4	-5.4	9.7
Jul	-	7.2	5.1	-6.3	10.8
Aug	1.6	7.2	6.0	-6.6	11.2
Sep	2.6	5.5	5.9	-7.7	10.1
	4.4	3.9	4.6	-5.8	12.2
Oct					
Nov Dec	4.7 4.5	3.8 6.0	2.8 1.7	-5.9 -5.1	11.1 9.7

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IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

			Industry components (SIC20	007)	
			Activities of		
	Legal	Accounting and auditing	head offices; management	Architectural and engineering	Scientifi research an
	activities	activities	consultancy	activities	developmer
Component	69.1	69.2	70	71	7
2016 weights	17	15	17	17	
ercentage change, latest	3 months on previous 3 m	onths			
· · · · · · · · · · · · · · · · · · ·	S2CD	S2CE	S2CF	S2CG	S2CI
2017 Dec	0.7	0.8	4.3	2.8	2.
2018 Jan	1.1	5.0	1.1	4.3	2.
Feb	0.3	5.9	-2.0	4.3	1.
Mar	1.8	4.5	-3.5	3.4	-2.4
Apr	1.2	1.4	-2.3	1.4	-3.
May	2.6	1.2	-0.5	1.1	-2.
Jun	1.6	1.1	1.0	0.4	0.
Jul	1.7	1.1	0.9	1.1	0.
Aug	-0.1	1.2	0.7	0.9	1.
Sep	-1.1	2.9	0.8	1.3	2.
Oct	-2.0	5.1	1.8	-0.7	3.
Nov	-1.1	4.3	2.9	-1.5	3.
Dec	0.5	1.3	2.9	-2.4	1.
2019 Jan	0.9	-3.1	1.7	-1.8	1.
Feb	1.1	-4.0	-0.5	-2.5	3.
Mar	-0.2	-2.2	-1.5	-2.0	6.
Apr	0.7	1.0	-1.7	-2.4	6.
May	0.7	3.1	-0.3	-2.3	1.
Jun	1.2	3.4	1.3	-2.3	-0.
Jul	0.4	4.2	3.3	-1.7	-1.
Aug	0.9	3.8	3.8	-0.5	2.
Sep	1.0	3.0	3.2	-1.3	3.
Oct	2.3	1.9	1.4	-0.2	4.
Nov	1.9	1.1	-0.2	-0.7	3.
Dec	2.4	1.8	-1.2	0.4	0.

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# IOSCOMP IOS: Index of Services Chained volume indice

### Chained volume indices of gross value added $^{\rm 1,2,3}$

seasonally adjusted 2016 = 100

		Other professional	dustry components (SIC2	Administrative	
	Advertising	scientific and		and support	Rent
	and market	technical	Veterinary	service	and leasin
	research	activities	activities	activities	activitie
omponent	73	74	75	N	7
016 weights	13	6	2	64	1
0015	S2LW	S2LX	S2LY	S2LZ	S2N
2015	97.8	101.6	95.2	98.1	97
2016	100.0	100.0	100.0	100.0	100
2017	103.4	100.4	103.6	104.0	101
2018	111.6	101.8	107.3	108.1	104
2019	112.5	99.2	113.6	110.8	105
2017 Dec	104.7	97.7	102.2	107.3	102
2018 Jan	108.5	98.7	102.3	107.7	107
Feb	108.9	99.6	103.1	105.9	102
Mar	112.6	98.6	103.9	105.5	102
Apr	108.6	100.1	106.5	107.0	106
May	110.1	99.4	105.7	107.0	103
Jun	111.3	102.1	107.3	108.6	105
Jul	110.3	104.2	108.5	108.4	102
Aug	111.4	104.7	109.4	108.4	103
Sep	111.9	104.0	109.7	108.0	103
Oct	114.2	102.5	110.7	110.0	103
Nov	115.3	104.9	110.7	110.1	100
Dec	116.7	104.5	109.8	109.4	105
2019 Jan	114.4	102.0	112.2	110.4	103
Feb	113.2	99.4	112.8	111.1	106
Mar	112.0	99.6	111.7	111.3	106
Apr	114.9	99.1	112.8	110.6	103
May	109.8	101.0	112.6	111.2	103
Jun	111.4	99.0	113.4	110.3	103
Jul	116.4	99.1	114.6	111.8	108
Aug	112.0	101.4	114.5	110.2	106
Sep	111.4	97.1	116.0	109.6	102
Oct	109.7	99.2	113.9	110.5	106
Nov	111.8	98.0	115.6	110.8	108
Dec	112.4	96.9	112.9	111.5	108
ercentage change, latest	year on previous year				
• •	S234	S235	S236	S237	S23
2015	4.8	-1.3	-0.3	5.0	9
2016	2.3	-1.6	5.0	1.9	2
2017	3.4	0.4	3.6	4.0	1
2018	7.9	1.4	3.6	3.9	3
2019	0.7	-2.6	5.9	2.5	1
ercentage change, latest	month on same month S27S	sa year ago S27T	S27U	S27V	S27
2017 Dec	-2.8	-1.1	-0.1	5.8	1
2017 Dec 2018 Jan	8.5	1.0	-0.1	5.1	7
Feb	8.3	-0.5	0.6	3.6	4
Mar	17.5	-1.7	1.0	2.7	2
Apr	9.9	-1.2	7.0	6.6	6
May	7.0	-5.1	2.9	3.6	1
Jun	6.2	-0.4	0.7	4.8	4
Jul	5.1	5.0	3.8	4.4	0
Aug	3.5	4.2	2.6	4.0	2
Sep	0.1	2.1	4.3	2.8	3
Oct	10.2	1.7	5.7	4.1	-0
Nov	9.0	6.8	7.6	3.4	0
Dec	9.0 11.4		7.5	1.9	2
		4.9			
2019 Jan	5.4	1.3	9.7	2.5	-3
Feb	4.0	-0.2	9.4	4.9	3
Mar	-0.5	1.1	7.5	4.6	2
Apr	5.8	-1.0	5.9	3.4	-3
May	-0.2	1.5	6.5	3.9	0
Jun	0.1	-3.0	5.7	1.6	-1
Jul	5.5	-4.9	5.6	3.1	5
Aug	0.5	-3.1	4.7	1.7	2
Sep	-0.4	-6.6	5.7	1.5	-1
	-3.9	-3.3	2.9	0.4	3
Oct					
Nov Dec	-3.1 -3.7	-6.6 -5.4	4.5 2.8	0.6 1.9	4

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IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

		Inc	lustry components (SIC2007)	)	
	0	ther professional		Administrative	
	Advertising	scientific and		and support	Renta
	and market	technical	Veterinary	service	and leasing
	research	activities	activities	activities	activities
Component		74		N	
Component	73		75		7
2016 weights	13	6	2	64	14
ercentage change, latest n					
	S234	S235	S236	S237	S23
2017 Dec	-1.0	-0.5	-0.7	0.8	-0.
2018 Jan	3.6	1.0	0.2	0.3	4.9
Feb	0.3	1.0	0.8	-1.7	-4.
Mar	3.4	-1.1	0.7	0.5	0.8
Apr	-3.5	1.5	2.5	0.6	2.
May	1.3	-0.6	-0.7	-	-3.3
Jun	1.1	2.6	1.5	1.5	2.1
Jul	-0.9	2.1	1.1	-0.2	-2.4
	1.0	0.5	0.9	-0.2	1.1
Aug				-	1.4
Sep	0.4	-0.7	0.3	-0.3	
Oct	2.1	-1.4	0.9	1.8	-0.9
Nov	1.0	2.3	-	0.1	1.:
Dec	1.2	-2.3	-0.7	-0.7	1.0
2019 Jan	-2.0	-2.5	2.2	0.9	-1.0
Feb	-1.0	-0.6	0.5	0.7	2.3
Mar	-1.1	0.2	-1.0	0.2	-0.
Apr	2.6	-0.5	1.0	-0.7	-2.8
May	-4.4	1.9	-0.2	0.5	0.3
Jun	1.4	-1.9	0.7	-0.8	0.3
Jul	4.5	0.1	1.0	1.3	4.
	-3.8	2.4	1.0	-1.4	
Aug			-		-2.
Sep	-0.5	-4.3	1.3	-0.5	-3.1
Oct	-1.5	2.1	-1.8	0.7	4.
Nov	1.9	-1.2	1.5	0.4	1.
Dec	0.5	-1.1	-2.4	0.6	0.0
ercentage change, latest 3	months on same 3 months a	a year ago			
	S2H8	S2H9	S2HA	S2HB	S2H0
2017 Dec	0.7	0.3	3.3	5.4	0.9
2018 Jan	3.1	-0.1	1.0	5.4	3.
Feb	4.5	-0.2	0.1	4.8	4.3
Mar	11.3	-0.4	0.5	3.8	4.
Apr	11.8	-1.1	2.8	4.3	4.0
May	11.4	-2.7	3.6	4.3	3.0
Jun	7.7	-2.7	3.5	4.3	4.1
Jul	6.1	-0.3	2.5	4.3	2.
Aug	4.9	2.9	2.3	4.4	2.3
Sep	2.9	3.7	3.5	3.7	1.
Oct	4.5	2.7	4.2	3.6	1.
Nov	6.3	3.5	5.8	3.4	1.
Dec	10.2	4.4	6.9	3.1	1.
2019 Jan	8.6	4.3	8.2	2.6	-0.
Feb	6.9	2.0	8.9	3.1	0.
Mar	2.9	0.7	8.9	4.0	0.
Apr	3.1	-	7.6	4.3	0.
May	1.7	0.5	6.6	4.0	0.
	1.9	-0.8	6.0	2.9	-1.3
Jun					
Jul	1.8	-2.2	5.9	2.9	1.
Aug	2.0	-3.7	5.3	2.1	2.1
Sep	1.8	-4.9	5.3	2.1	2.
Oct	-1.3	-4.3	4.4	1.2	1.
Nov	-2.5	-5.5	4.4	0.8	1.9

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IOS: Index of Services Chained volume indices of gross value added <sup>1,2,3</sup>

seasonally adjusted 2016 = 100

		Ir	dustry components (SIC2007)		
		Other professional		Administrative	
	Advertising	scientific and		and support	Renta
	and market	technical	Veterinary	service	and leasing
	research	activities	activities	activities	activities
Component	73	74	75	N	77
2016 weights	13	6	2	64	14
ercentage change, lates	t 3 months on previous 3 n	nonths			
3	S2CI	S2CJ	S2CK	S2CL	S2CM
2017 Dec	-3.2	-1.6	-2.1	2.1	1.4
2018 Jan	-1.2	-2.8	-2.9	2.1	2.6
Feb	0.3	-1.6	-1.6	1.2	2.0
Mar	5.0	-	-0.1	0.2	1.7
Apr	3.5	1.2	2.0	-0.7	-0.2
May	2.8	0.7	2.8	-0.1	-0.1
Jun	-	1.6	3.3	0.8	0.1
Jul	0.5	2.5	2.5	1.4	-0.7
Aug	0.5	4.3	2.9	1.5	-0.5
Sep	1.1	3.8	2.5	0.6	-1.3
Oct	1.7	1.8	2.6	0.7	
Nov	2.5	0.1	1.8	0.9	-0.3
Dec	3.8	-1.0	1.1	1.5	0.6
2019 Jan	2.6	-1.2	0.9	1.1	0.9
Feb	0.9	-3.0	1.2	0.8	1.6
Mar	-1.9	-3.5	1.7	1.0	1.5
Apr	-1.8	-3.0	1.4	1.0	0.8
May	-2.2	-0.8	0.7	0.7	-0.9
Jun	-1.0	-	0.6	-0.2	-2.0
Jul	-0.7	0.3	1.0	0.1	-0.1
Aug	0.9	-	1.6	-0.3	1.8
Sep	1.1	-0.5	1.9	-0.2	2.0
Oct	-1.3	-0.5	1.1	-0.9	-0.3
Nov	-2.0	-1.8	0.9	-0.4	-0.5
Dec	-1.7	-1.2	-0.8	0.4	2.2

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Time series dataset

IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

	Industry components (SIC2007)					
		·		Services to	Office administrative	
		Travel agencies	Security and	buildings and	office support and	
	Employment	and tour	investigation	landscape	other business	
	activities		activities		support activities	
		operators		activities		
omponent	78	79	80	81	8	
16 weights	18	7	2	7	1	
	S2M3	S2M4	S2M5	S2M6	S2M	
2015	98.2	93.7	96.3	101.2	99.	
2016	100.0	100.0	100.0	100.0	100.0	
2017	103.7	107.2	100.9	100.8	107.3	
2018	111.5	98.6	109.0	103.9	113.	
2019	120.0	92.8	113.0	104.8	115.	
2017 Dec	108.4	105.7	99.8	101.2	114.	
2018 Jan	106.8	103.4	102.9	102.9	113.	
Feb	106.6	98.4	105.4	104.8	111.9	
Mar	106.2	100.9	106.5	103.8	113.	
Apr	106.6	100.9	109.3	100.9	113.4	
May	109.2	98.5	108.4	103.9	113.3	
Jun	112.6	101.6	109.6	104.4	112.0	
Jul	111.3	98.8	111.8	106.0	115.1	
Aug	110.9	96.7	110.0	105.5	116.0	
Sep	112.7	95.3	111.8	105.0	113.0	
Oct	118.4	96.2	109.7	104.2	115.	
Nov	118.9	97.5	109.9	103.8	113.	
Dec	117.4	95.4	112.3	101.1	113.4	
2019 Jan	119.5	97.3	114.2	102.4	114.4	
Feb	120.8	94.4	113.8	101.9	115.	
Mar	121.8	92.7	113.8	104.7	114.	
Apr	121.8	94.1	114.3	105.3	113.	
May	121.1	93.4	114.9	104.0	117.0	
Jun	119.3	91.9	113.9	102.2	117.	
	120.5	92.4	113.0	105.4		
Jul					115.	
Aug	118.3	94.4	110.6	104.3	114.0	
Sep	119.7	91.7	111.8	104.9	114.	
Oct	117.8	92.9	110.4	107.7	114.	
Nov	119.2	89.6	111.8	106.7	114.	
Dec	120.7	88.4	112.9	107.7	114.9	
ercentage change, latest						
ercentage change, latest	S239	S23A	S23B	S23C	S23[	
ercentage change, latest 2015		S23A 6.0	S23B 0.8	S23C 1.5		
2015	S239 3.0	6.0	0.8	1.5	5.3	
2015 2016	S239 3.0 1.8	6.0 6.7	0.8 3.8	1.5 -1.1	5.: 0.:	
2015 2016 2017	S239 3.0 1.8 3.7	6.0 6.7 7.2	0.8 3.8 0.9	1.5 -1.1 0.8	5. 0. 7.	
2015 2016 2017 2018	S239 3.0 1.8 3.7 7.5	6.0 6.7 7.2 -7.9	0.8 3.8 0.9 8.0	1.5 -1.1 0.8 3.0	5.3 0.3 7.2 6.0	
2015 2016 2017	S239 3.0 1.8 3.7	6.0 6.7 7.2	0.8 3.8 0.9	1.5 -1.1 0.8	5.3 0.3 7.2 6.0	
2015 2016 2017 2018 2019	\$239 3.0 1.8 3.7 7.5 7.7	6.0 6.7 7.2 -7.9 -5.9	0.8 3.8 0.9 8.0	1.5 -1.1 0.8 3.0	5.3 0.3 7.2 6.0	
2015 2016 2017 2018 2019	\$239 3.0 1.8 3.7 7.5 7.7	6.0 6.7 7.2 -7.9 -5.9	0.8 3.8 0.9 8.0	1.5 -1.1 0.8 3.0	5. 0. 7. 6. 1.	
2015 2016 2017 2018 2019 ercentage change, latest	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X	6.0 6.7 7.2 -7.9 -5.9 • year ago	0.8 3.8 0.9 8.0 3.7 S27Z	1.5 -1.1 0.8 3.0 0.9 S282	5. 0. 7. 6. 1. S28	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5	6.0 6.7 7.2 -7.9 -5.9 • year ago \$27Y -3.4	0.8 3.8 0.9 8.0 3.7 S27Z 1.7	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8	5. 0. 7. 6. 1. 5. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan	S <sup>239</sup> 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4	6.0 6.7 7.2 -7.9 -5.9 • year ago S27Y -3.4 -8.3	0.8 3.8 0.9 8.0 3.7 S27Z 1.7 2.6	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7	5 0. 7. 6. 1. S28 16. 12.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1	6.0 6.7 7.2 -7.9 -5.9 <b>x year ago</b> S27Y -3.4 -8.3 -8.3	0.8 3.8 0.9 8.0 3.7 S27Z 1.7 2.6 3.8	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6	5. 0. 7. 6. 1. 1. S28 16. 12. 9.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4	6.0 6.7 7.2 -7.9 -5.9 • year ago S27Y -3.4 -8.3	0.8 3.8 0.9 8.0 3.7 S27Z 1.7 2.6 3.8 2.7	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7	5. 0. 7. 6. 1. 1. 528 16. 12. 9. 7.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1	6.0 6.7 7.2 -7.9 -5.9 <b>x year ago</b> S27Y -3.4 -8.3 -8.3	0.8 3.8 0.9 8.0 3.7 S27Z 1.7 2.6 3.8	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6	5. 0. 7. 6. 1. 1. 528 16. 12. 9. 7.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3	6.0 6.7 7.2 -7.9 -5.9 • year ago \$27Y -3.4 -8.3 -8.3 -6.2 -0.6	0.8 3.8 0.9 8.0 3.7 S27Z 1.7 2.6 3.8 2.7 7.3	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 2.6 0.8	5. 0. 7. 6. 1. 1. 528 16. 12. 9. 7. 9. 7.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5	6.0 6.7 7.2 -7.9 -5.9 • year ago S27Y -3.4 -8.3 -8.3 -8.3 -8.3 -6.2 -0.6 -7.5	0.8 3.8 0.9 8.0 3.7 \$27Z 1.7 2.6 3.8 2.7 7.3 8.7	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 2.6 0.8 1.3	5. 0. 7. 6. 1. 12. 9. 7. 9. 9. 6.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6	6.0 6.7 7.2 -7.9 -5.9 <b>year ago</b> S27Y -3.4 -8.3 -8.3 -6.2 -0.6 -7.5 -5.9	0.8 3.8 0.9 8.0 3.7 \$27Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 2.6 0.8 1.3 3.3	5. 0. 7. 6. 1. 12. 9. 7. 9. 6. 4.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4	6.0 6.7 7.2 -7.9 -5.9 • year ago S27Y -3.4 -8.3 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8	0.8 3.8 0.9 8.0 3.7 527Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 2.6 0.8 1.3 3.3 3.3	5. 0. 7. 6. 1. 528 16. 12. 9. 7. 9. 6. 4.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jun Jul Aug	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.5 9.6 7.4 7.1	6.0 6.7 7.2 -7.9 -5.9 <b>S27Y</b> -3.4 -8.3 -8.3 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8 -9.7	0.8 3.8 0.9 8.0 3.7 \$27Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 2.6 2.6 2.6 3.3 3.3 7.1 4.8	5. 0. 7. 6. 1. \$28 16. 12. 9. 7. 9. 6. 4. 7. 7.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4	6.0 6.7 7.2 -7.9 -5.9 • year ago S27Y -3.4 -8.3 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8	0.8 3.8 0.9 8.0 3.7 527Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 2.6 0.8 1.3 3.3 3.3	5. 0. 7. 6. 1. \$28 16. 12. 9. 7. 9. 6. 4. 7. 7.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.5 9.6 7.4 7.1	6.0 6.7 7.2 -7.9 -5.9 <b>S27Y</b> -3.4 -8.3 -8.3 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8 -9.7	0.8 3.8 0.9 8.0 3.7 \$27Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 2.6 2.6 2.6 3.3 3.3 7.1 4.8	5. 0. 7. 6. 1. 12. 9. 7. 9. 6. 4. 7. 7. 7. 9. 6. 7. 7. 9. 7. 7. 9. 7. 9. 7. 7. 9. 7. 7. 9. 7. 7. 9. 7. 7. 9. 7. 7. 9. 7. 7. 9. 7. 7. 7. 7. 7. 9. 7. 7. 7. 7. 7. 7. 7. 7. 9. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jun Jul Aug Sep Oct	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1	6.0 6.7 7.2 -7.9 -5.9 <b>9 year ago</b> S27Y -3.4 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8 -9.7 -12.1 -9.7	0.8 3.8 0.9 8.0 3.7 527Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4 9.7 9.0	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 0.8 1.3 3.3 7.1 4.8 3.0 2.6	5. 0. 7. 6. 1. 12. 9. 7. 9. 6. 4. 7. 7. 2. 4.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov	S <sup>239</sup> 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1 11.4	6.0 6.7 7.2 -7.9 -5.9 <b>Eyear ago</b> S27Y -3.4 -8.3 -8.3 -8.3 -8.3 -8.3 -8.3 -8.3 -8.3	0.8 3.8 0.9 8.0 3.7 \$27Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4 9.7 9.0 6.9	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 2.6 2.6 0.8 1.3 3.3 7.1 1 4.8 3.0 2.6 2.7	5. 0. 7. 6. 1. \$28 16. 12. 9. 7. 9. 6. 4. 7. 7. 2. 4. 2.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	Sc39 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1 11.4 8.3	6.0 6.7 7.2 -7.9 -5.9 <b>S27Y</b> -3.4 -8.3 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8 -9.7 -12.1 -9.7 -10.1 -9.7	0.8 3.8 0.9 8.0 3.7 \$27Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4 9.7 9.0 6.9 12.5	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 2.6 2.6 2.6 3.3 3.3 7.1 4.8 3.0 2.6 2.7 -0.1	5. 0. 7. 6. 1. 12. 9. 7. 9. 6. 4. 7. 7. 2. 4. 2. -1.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jun Jul Aug Sep Oct Nov Dec 2019 Jan	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1 11.4 8.3 11.8	6.0 6.7 7.2 -7.9 -5.9 <b>9 year ago</b> S27Y -3.4 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8 -9.7 -12.1 -9.7 -10.1 -9.7 -5.9	0.8 3.8 0.9 8.0 3.7 \$27Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4 9.7 9.0 6.9 12.5 11.0	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 2.6 2.6 2.6 3.3 3.3 7.1 4.8 3.0 2.6 2.7 -0.1 1-0.5	5. 0. 7. 6. 1. 12. 9. 7. 9. 6. 4. 7. 7. 2. 4. 2. 4. 2. -1. 0. 0.	
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2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1 11.4 8.3 12.1 11.4 8.3 11.8 13.3	6.0 6.7 7.2 -7.9 -5.9 <b>x year ago</b> <b>S27Y</b> -3.4 -8.3 -8.3 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8 -9.7 -12.1 -9.7 -10.1 -9.7 -10.1 -9.7 -5.9 -4.1	0.8 3.8 0.9 8.0 3.7 \$27Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4 9.7 9.0 6.9 12.5 11.0 8.0	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6	5. 0. 7. 6. 1. 528 16. 12. 9. 7. 9. 6. 4. 7. 7. 2. 4. 2. -1. 0. 0. 3. 3.	
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2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4 7.4 7.1 8.3 12.1 11.4 8.3 12.1 11.8 13.3 14.7 14.7	6.0 6.7 7.2 -7.9 -5.9 <b>x year ago</b> <b>S27Y</b> -3.4 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8 -9.7 -12.1 -9.7 -10.1 -9.7 -5.9 -4.1 -8.1 -6.7	0.8 3.8 0.9 8.0 3.7 \$2772 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4 9.7 9.0 6.9 12.5 11.0 8.0 6.9 4.6	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 2.6 2.6 2.6 3.3 3.3 7.1 4.8 3.0 2.6 2.7 -0.1 -0.5 -2.8 0.9 9.4.3	5. 0. 7. 6. 1. 12. 9. 7. 9. 6. 4. 4. 7. 7. 2. 4. 4. 2. -1. 0. 3. 1. 0.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Aug	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1 11.4 8.3 12.1 11.4 8.3 12.1 11.4 8.3 12.1 11.4 8.3 12.1 11.8 13.3 14.7 1.8 13.3 14.7 14.2 10.8	6.0 6.7 7.2 -7.9 -5.9 8 year ago 8 S27Y -3.4 -8.3 -8.3 -8.3 -8.3 -8.3 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8 -9.7 -10.1 -9.7 -10.1 -9.7 -5.9 -4.1 -8.1 -8.1 -6.7 -5.2	0.8 3.8 0.9 8.0 3.7 \$27Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4 9.7 9.0 6.9 12.5 11.0 8.0 6.9 4.6 6.0	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6	5. 0. 7. 6. 1. 528 16. 12. 9. 7. 9. 6. 4. 7. 7. 2. 4. 2. -1. 0. 3. 3. 1. 0. 3. 3.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1 11.4 8.3 12.1 11.4 8.3 11.8 13.3 14.7 14.2 10.8 5.9	6.0 6.7 7.2 -7.9 -5.9 S27Y -3.4 -8.3 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8 -9.7 -12.1 -9.7 -12.1 -9.7 -10.1 -9.7 -5.9 -6.8 -9.7 -12.1 -9.7 -10.1 -9.7 -5.9	0.8 3.8 0.9 8.0 3.7 S27Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4 9.7 9.0 6.9 12.5 11.0 8.0 6.9 12.5 11.0 8.0 6.9 12.5 11.0 8.0 9.0 6.9 12.5 1.0 9.0 8.0 9.0 8.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9	$\begin{array}{c} 1.5\\ -1.1\\ 0.8\\ 3.0\\ 0.9\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	5. 0. 7. 6. 1. 528 16. 12. 9. 9. 6. 4. 7. 9. 6. 4. 7. 7. 2. 4. 2. -1. 0. 3. 1. 0. 3. 4. 4. 2. 4. 3. 4. 4. 2. 4. 4. 2. 4. 4. 3. 4. 4. 4. 4. 4. 5. 5. 6. 5. 6. 5. 6. 5. 7. 6. 5. 7. 7. 6. 5. 6. 5. 7. 7. 6. 7. 7. 7. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Aug	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1 11.4 8.3 12.1 11.4 8.3 12.1 11.4 8.3 12.1 11.4 8.3 12.1 11.8 13.3 14.7 1.8 13.3 14.7 14.2 10.8	6.0 6.7 7.2 -7.9 -5.9 S27Y -3.4 -8.3 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8 -9.7 -12.1 -9.7 -12.1 -9.7 -10.1 -9.7 -5.9 -6.8 -9.7 -12.1 -9.7 -10.1 -9.7 -5.9	0.8 3.8 0.9 8.0 3.7 \$27Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4 9.7 9.0 6.9 12.5 11.0 8.0 6.9 4.6 6.0	1.5 -1.1 0.8 3.0 0.9 \$282 -0.8 5.7 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6	5. 0. 7. 6. 1. 528 16. 12. 9. 9. 6. 4. 7. 9. 6. 4. 7. 7. 2. 4. 2. -1. 0. 3. 1. 0. 3. 4. 4. 2. 4. 3. 4. 4. 2. 4. 4. 2. 4. 4. 3. 4. 4. 4. 4. 4. 5. 5. 6. 5. 6. 5. 6. 5. 7. 6. 5. 7. 7. 6. 5. 6. 5. 7. 7. 6. 7. 7. 7. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr Nov Dec 2019 Jan Feb Mar Apr Nov Dec 2019 Jan Feb Mar Jul Jul Jul	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1 11.4 8.3 12.1 11.4 8.3 12.1 11.8 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1 11.4 8.3 12.1 11.8 3.3 12.1 1.8 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1 11.4 8.3 12.1 11.4 8.3 12.5 9.6 7.4 7.5 9.6 7.4 8.3 12.1 11.4 8.3 12.5 9.6 7.5 9.6 7.4 8.3 12.1 1.4 7.5 9.6 7.4 8.3 12.1 1.4 7.5 9.6 7.4 8.3 12.5 9.6 7.4 8.3 12.5 9.6 7.4 8.3 12.5 8 8.3 12.5 8 8.3 1.5 9.6 8.3 1.5 8 8.3 1.5 9.6 8 8.3 1.5 9.6 8.3 1.5 9.6 8.3 1.5 9.6 8.3 1.5 9.6 8.3 1.5 9.6 8.3 1.5 9.6 8.3 1.5 9.8 8.3 1.5 9.8 8.3 1.5 9.8 8.3 8.3 8.3 8.3 8.3 8.3	6.0 6.7 7.2 -7.9 -5.9 S27Y -3.4 -8.3 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8 -9.7 -12.1 -9.7 -10.1 -9.7 -5.9 -4.1 -8.1 -6.7 -5.2 -9.5 -6.5	0.8 3.8 0.9 8.0 3.7 \$27Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4 9.7 9.0 6.9 12.5 11.0 8.0 6.9 4.6 6.0 3.9 1.1	$\begin{array}{c} 1.5\\ -1.1\\ 0.8\\ 3.0\\ 0.9\\ \end{array}$	5. 0. 7. 6. 1. 12. 9. 7. 9. 6. 4. 4. 7. 7. 2. 4. 2. 4. 2. -1. 0. 3. 1. 0. 3. 4. 0. 3. 4. 0. 0. 3. 1. 0. 0. 3. 1. 0. 3. 1. 528 16. 12. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr Dec 2019 Jan Feb Mar Apr May Jun Jul Aug	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1 11.4 8.3 12.1 11.4 8.3 11.8 13.3 14.7 14.2 10.8 5.9 8.3 6.8	6.0 6.7 7.2 -7.9 -5.9 <b>x year ago</b> <b>S27Y</b> -3.4 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8 -9.7 -12.1 -9.7 -10.1 -9.7 -10.1 -9.7 -5.9 -4.1 -8.1 -6.7 -5.2 -9.5 -5.2 -9.5 -6.5 -2.4	0.8 3.8 0.9 8.0 3.7 \$27Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4 9.7 9.0 6.9 12.5 11.0 8.0 6.9 4.6 6.0 3.9 1.1 0.6	$\begin{array}{c} 1.5\\ -1.1\\ 0.8\\ 3.0\\ 0.9\\ \end{array}$	5. 0. 7. 6. 1. 528 16. 12. 9. 7. 9. 7. 9. 6. 4. 4. 7. 7. 2. 4. 4. 2. -1. 0. 3. 1. 0. 3. 4. 0. 1. 0. 3. 4. 0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr Nov Dec 2019 Jan Feb Mar Apr Nov Dec 2019 Jan Feb Mar Apr Sep Oct Nov Dec 2019 Jan Feb	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1 11.4 8.3 11.8 13.3 14.7 14.2 10.8 5.9 8.3 6.8 6.2	6.0 6.7 7.2 -7.9 -5.9 S27Y -3.4 -8.3 -8.3 -8.3 -8.3 -8.3 -8.3 -8.3 -8.3	0.8 3.8 0.9 8.0 3.7 S27Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4 9.7 9.0 6.9 12.5 11.0 8.0 6.9 12.5 11.0 8.0 6.9 12.5 11.0 8.0 0.1	$\begin{array}{c} 1.5\\ -1.1\\ 0.8\\ 3.0\\ 0.9\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	5 0.3 7.7 6.1 1.3 528 16.: 12 9.9 7 9 6. 4.1 7 7.1 2 4.1 2 1.1 0. 3.1 1. 0. 3.1 1. 0. 3.1 1. 1. 0. 3. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr Nov Dec 2019 Jan Feb Mar Apr Nov Dec 2019 Jan Feb Mar Sep Oct	Sc39 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1 11.4 8.3 11.8 13.3 14.7 14.2 10.8 5.9 8.3 6.8 6.2 -0.5	6.0 6.7 7.2 -7.9 -5.9 <b>S27Y</b> -3.4 -8.3 -8.3 -6.2 -0.6 -7.5 -5.9 -6.8 -9.7 -12.1 -9.7 -10.1 -9.7 -10.1 -9.7 -5.9 -4.1 -8.1 -6.7 -5.2 -9.5 -6.5 -2.4 -3.7 -3.5	0.8 3.8 0.9 8.0 3.7 \$2772 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4 9.7 9.0 6.9 12.5 11.0 8.0 6.9 12.5 11.0 8.0 6.9 4.6 6.0 3.9 1.1 0.6 0.1 0.6	$\begin{array}{c} 1.5\\ -1.1\\ 0.8\\ 3.0\\ 0.9\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	5 0.3 7.: 6.1 1.3 528 16.3 12 9.: 9.: 9.: 9.: 9.: 9.: 9.: 9.: 9.: 9	
2015 2016 2017 2018 2019 ercentage change, latest 2017 Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2019 Jan Feb Mar Apr Nov Dec 2019 Jan Feb Mar Apr Nov Dec 2019 Jan Feb Mar Apr Sep Oct Nov Dec 2019 Jan Feb	S239 3.0 1.8 3.7 7.5 7.7 month on same month a S27X 7.5 3.4 3.1 2.4 9.3 7.5 9.6 7.4 7.1 8.3 12.1 11.4 8.3 11.8 13.3 14.7 14.2 10.8 5.9 8.3 6.8 6.2	6.0 6.7 7.2 -7.9 -5.9 S27Y -3.4 -8.3 -8.3 -8.3 -8.3 -8.3 -8.3 -8.3 -8.3	0.8 3.8 0.9 8.0 3.7 S27Z 1.7 2.6 3.8 2.7 7.3 8.7 10.0 14.2 8.4 9.7 9.0 6.9 12.5 11.0 8.0 6.9 12.5 11.0 8.0 6.9 12.5 11.0 8.0 0.1	$\begin{array}{c} 1.5\\ -1.1\\ 0.8\\ 3.0\\ 0.9\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	S23( 5. 0.) 7. 6. 1. 528: 16. 12. 9. 9. 6. 12. 9. 9. 6. 4. 1. 7. 7. 2. 4. 1. 3. 3. 1. 0. 0. 3. 4. 1. 2. 2. 1. 1. 3. 1. 2. 1. 3. 3. 1. 2. 1. 3. 3. 1. 3. 3. 1. 528: 528: 528: 528: 528: 528: 528: 528:	

Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".
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IOS: Index of Services Chained volume indices of gross value added <sup>1,2,3</sup>

seasonally adjusted 2016 = 100

ontinued			ndustry components (SIC200	17)	
			•	Services to	Office administrative,
		Travel agencies	Security and	buildings and	office support and
	Employment	and tour	investigation	landscape	other business
	activities	operators	activities	activities	support activities
Component	78	79	80	81	82
2016 weights	18	7	2	7	15
ercentage change, lates	t month on previous month S239	S23A	S23B	S23C	S23D
2017 Dec	1.6	-2.5	-2.9	0.1	3.1
2018 Jan	-1.5	-2.1	3.1	1.7	-1.1
Feb	-0.2	-4.8	2.4	1.7	-1.5
Mar	-0.2	2.5	1.1	-0.9	1.0
Apr	0.4	0.1	2.6	-2.8	0.3
May	2.4	-2.4	-0.8	3.0	-0.1
Jun	3.1	3.1	1.2	0.4	-1.1
Jul	-1.1	-2.7	2.0	1.5	2.8
Aug	-0.4	-2.1	-1.6	-0.5	0.8
Sep	1.7	-1.5	1.6	-0.4	-2.6
Oct	5.1	1.0	-1.8	-0.8	2.1
Nov	0.4	1.3	0.2	-0.4	-1.4
Dec	-1.3	-2.1	2.1	-2.6	-0.4
2019 Jan	1.8	2.0	1.7	1.3	0.9
Feb	1.2	-3.0	-0.3	-0.5	0.8
Mar	0.8	-1.9	0.0	2.8	-0.4
Apr	0.0	1.6	0.4	0.5	-1.2
May	-0.6	-0.8	0.4	-1.2	3.6
	-0.6 -1.5				-0.3
Jun		-1.6	-0.8	-1.8	
Jul	1.0	0.5	-0.8	3.2	-1.2
Aug	-1.8	2.2	-2.1	-1.1	-1.7
Sep	1.1	-2.9	1.1	0.5	0.6
Oct	-1.6	1.3	-1.3	2.7	-0.2
Nov	1.2	-3.6	1.3	-0.9	0.3
Dec	1.2	-1.3	1.0	0.9	0.2
ercentage change lates	t 3 months on same 3 month	s a vear ago			
erbentage onlange, lates	S2HD	S2HE	S2HF	S2HG	S2HH
2017 Dec	6.4	1.1	0.9	-0.8	14.2
2018 Jan	5.3	-3.2	2.5	0.6	14.4
Feb	4.7	-6.7	2.7	2.5	12.9
Mar	3.0	-7.6	3.0	3.6	9.8
	4.8	-7.0	4.6	2.0	8.8
Apr					
May	6.3	-4.8	6.2	1.6	7.8
Jun	8.8	-4.8	8.7	1.8	6.9
Jul	8.1	-6.8	11.0	3.9	6.2
Aug	8.0	-7.5	10.8	5.1	6.5
Sep	7.6	-9.6	10.7	5.0	5.7
Oct	9.2	-10.5	9.0	3.5	4.9
Nov	10.6	-10.6	8.5	2.8	3.1
Dec	10.6	-9.8	9.4	1.7	1.9
2019 Jan	10.5	-8.6	10.1	0.7	0.5
Feb	11.1	-6.6	10.4	-1.1	0.8
Mar	13.3	-6.0	8.6	-0.8	1.8
Apr	14.1	-6.3	6.5	0.7	1.6
May	13.2	-6.7	5.8	1.7	1.8
Jun	10.3	-6.7	4.8	0.7	2.9
			4.8 3.7		
Jul	8.3	-7.1		-0.9	3.0
	7.0	-6.2	1.9	-1.2	1.2
Aug	71	-4.2	0.6	-0.6	0.1
Sep	7.1				
Sep Oct	4.1	-3.2	0.4	0.7	
Sep					-0.4 0.5 0.4

1 Indices reflect values measured at basic prices, which exclude "taxes less

Indices reliect values measured at basic prices, which exclude taxes less subsidies on products".
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IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

			Industry components (SIC200		
				Services to	Office administrative
		Travel agencies	Security and	buildings and	office support and
	Employment	and tour	investigation	landscape	other business
	activities	operators	activities	activities	support activities
Component	78	79	80	81	82
2016 weights	18	7	2	7	15
Percentage change, lates	t 3 months on previous 3 r	nonths			
	S2CN	S2CO	S2CP	S2CQ	S2CF
2017 Dec	3.0	-0.3	0.7	0.8	3.3
2018 Jan	2.8	-1.4	0.5	0.3	3.5
Feb	1.7	-4.9	0.9	1.4	2.5
Mar	-0.4	-5.6	3.8	2.5	0.7
Apr	-0.8	-5.4	5.1	1.5	-0.4
May	0.1	-2.3	5.2	-	-0.2
Jun	2.8	-0.6	4.0	-0.7	0.
Jul	4.3	-0.4	2.7	1.5	0.0
Aug	4.0	-1.1	2.2	2.3	1.0
Sep	2.0	-3.4	1.9	2.3	1.0
Oct	2.7	-3.6	0.5	0.1	1.3
Nov	4.6	-2.7	-	-0.9	-0.3
Dec	5.9	-0.6	-0.5	-2.4	-0.4
2019 Jan	4.0	0.7	1.5	-2.4	-0.8
Feb	2.2	-0.6	2.7	-2.4	0.3
Mar	2.1	-1.6	3.0	-	0.5
Apr	2.4	-3.1	1.6	1.5	0.0
May	1.9	-2.4	0.8	2.9	0.9
Jun	-	-1.7	0.4	0.8	1.1
Jul	-1.0	-1.2	-	-0.1	2.
Aug	-1.8	-0.5	-1.6	-0.7	0.
Sep	-1.0	-0.3	-2.2	1.0	-1.1
Oct	-1.4	0.5	-2.6	1.7	-2.1
Nov	-0.4	-1.6	-1.1	2.4	-0.9
Dec	-0.2	-2.7	-0.1	2.4	-0.1

1 Indices reflect values measured at basic prices, which exclude "taxes less

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# IOSCOMP IOS: Index of Services Chained volume indice

Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

continued		0			
	Dublic educia	Dublis selector	Industry components (SI	IC2007)	
	Public admin	Public admin			Human health
	and defence; compulsory	and defence; compulsory			and social work
	social security	social security	Education	Education	activities
Component	0	84	P	85	Q
2016 weights	61	61	72	72	94
	S2M8	S2M9	S2MA	S2MB	S2MC
2015	102.0	102.0	100.8	100.8	98.4
2016	100.0	100.0	100.0	100.0	100.0
2017	100.8	100.8	101.2	101.2	101.0
2018 2019	101.6 103.5	101.6 103.5	101.9 104.7	101.9 104.7	101.5 103.4
2019	103.5	103.5	104.7	104.7	103.4
2017 Dec	101.0	101.0	101.0	101.0	101.0
2018 Jan	100.9	100.9	101.0	101.0	101.2
Feb	100.8	100.8	101.1	101.1	101.3
Mar	100.8	100.8	101.3	101.3	101.3
Apr	100.9	100.9	101.5	101.5	101.2
May	101.2	101.2	101.7	101.7	101.1
Jun	101.7	101.7	101.8	101.8	101.2
Jul	102.1	102.1	101.8	101.8	101.2
Aug Sep	102.4 102.3	102.4 102.3	101.9 102.1	101.9 102.1	101.5 101.8
Oct	102.3	102.3	102.1	102.1	101.9
Nov	102.1	102.1	102.4	102.4	101.9
Dec	102.5	102.5	102.1	103.1	102.2
2019 Jan	103.0	103.0	103.4	103.4	102.4
Feb	103.4	103.4	103.8	103.8	102.5
Mar	103.6	103.6	104.1	104.1	102.6
Apr	103.6	103.6	104.4	104.4	102.6
May	103.5	103.5	104.6	104.6	102.8
Jun	103.5	103.5	104.6	104.6	103.1
Jul	103.5	103.5	104.5	104.5	103.4
Aug	103.5	103.5	104.7	104.7	103.8
Sep	103.5	103.5	105.1	105.1	104.1
Oct Nov	103.5 103.5	103.5 103.5	105.2 105.6	105.2 105.6	104.3 104.3
Dec	103.6	103.5	105.8	105.8	104.3
200	10010	100.0	100.0	100.0	
Percentage change, lat	test year on previous year	0005	0000	00011	0001
2015	S23E -2.4	S23F -2.4	S23G 1.1	S23H 1.1	S23I 1.7
2016	-1.9	-1.9	-0.8	-0.8	1.6
2017	0.8	0.8	1.2	1.2	1.0
2018	0.9	0.9	0.7	0.7	0.4
2019	1.8	1.8	2.7	2.7	1.8
<b>.</b>					
Percentage change, lat	test month on same month S284	szas Szas	S286	S287	S288
2017 Dec	1.1	1.1	0.5	0.5	0.5
2018 Jan	0.6	0.6	-0.4	-0.4	0.4
Feb	0.4	0.4	-0.5	-0.5	0.3
Mar	0.2	0.2	-0.1	-0.1	0.1
Apr	-0.2	-0.2	0.2	0.2	-0.2
May	-	-	0.5	0.5	-0.4
Jun	0.6	0.6	0.6	0.6	-0.3
Jul	1.4	1.4	0.8	0.8	0.1
Aug	1.7	1.7	0.8	0.8	0.4
Sep	1.6	1.6	0.9	0.9	0.7
Oct Nov	1.3 1.1	1.3 1.1	1.4 1.7	1.4 1.7	1.6 1.4
Dec	1.1	1.1	2.0	2.0	1.4
2019 Jan	2.1	2.1	2.0	2.0	1.1
Feb	2.6	2.6	2.7	2.7	1.3
Mar	2.8	2.8	2.8	2.8	1.3
Apr	2.7	2.7	2.9	2.9	1.4
May	2.3	2.3	2.8	2.8	1.6
Jun	1.8	1.8	2.7	2.7	1.9
Jul	1.4	1.4	2.7	2.7	2.1
Aug	1.1	1.1	2.7	2.7	2.3
Sep	1.2	1.2	2.9	2.9	2.3
Oct	1.4	1.4	2.7	2.7	2.3
Nov	1.4	1.4	2.8	2.8	2.2
Dec	1.1	1.1	2.7	2.7	2.2

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IOS: Index of Services Chained volume indices of gross value added <sup>1,2,3</sup>

seasonally adjusted 2016 = 100

Public admin and defence; compulsory social security O 61 th on previous month S23E	Public admin and defence; compulsory social security 84 61	Industry components (SIC2007) Education P 72	Education 85	Human health and social work activities Q
and defence; compulsory social security O 61 th on previous month	and defence; compulsory social security 84	Р	85	and social work activities
compulsory social security O 61 th on previous month	compulsory social security 84	Р	85	and social work activities
social security O 61 th on previous month	social security 84	Р	85	activities
0 61 th on previous month	84	Р	85	
61 th on previous month				
th on previous month	01		72	94
			12	
S23E				
	S23F	S23G	S23H	S23I
-	-	-	-	0.4
-0.1	-0.1	-	-	0.2
-0.1	-0.1	0.1	0.1	-
-	-	0.2	0.2	-
0.1	0.1	0.2	0.2	-0.1
				-
				-
				-
				0.2
				0.3 0.2
-0.2	-0.2			0.2
- 0.2	-			0.1
				0.1
				0.2
				0.1
0.2	0.2			-
-0.1	-0.1			0.2
-0.1	-0.1			0.2
_	_	_		0.3
_	_	0.1		0.3
_	-			0.3
_	_	0.4	- 0.4	0.0
-	-	0.4	0.4	0.1
-	-			-
				S2HM
				0.3
				0.4
				0.4
				0.3
				0.1
				-0.2
				-0.3
				-0.2
				0.1 0.4
				0.4
				1.3
				1.3
				1.4
				1.2
				1.2
				1.2
				1.3
				1.4
				1.9
				2.1
				2.3
				2.3
1.2	1.2	2.8	2.8	2.3
1.3	1.3	2.7	2.0	2.3
•	0.3 0.4 0.2 -0.1 -0.2 -0.3 0.3 0.5 0.4 0.2 - -0.1 - - - - - - - - - - - - -	0.3 0.3 0.4 0.4 0.2 0.2 -0.1 -0.1 -0.2 -0.2 -0.3 0.3 0.5 0.5 0.4 0.4 0.2 0.2 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.	0.3       0.3       0.2         0.4       0.4       0.1         0.2       0.2       0.1         0.1       0.1       0.2 $0.2$ 0.2       0.1 $0.1$ 0.1       0.2 $0.2$ 0.2       0.3 $0.3$ 0.3       0.3 $0.3$ 0.3       0.3 $0.3$ 0.3       0.3 $0.5$ 0.5       0.3 $0.4$ 0.4       0.3 $0.2$ 0.2       0.3 $0.1$ 0.1       1 $ -$ 0.1 $ 0.4$ 0.4 $ 0.4$ 0.2 $ 0.2$ $0.2$ nths on same 3 months a year ago $0.2$ S2HI       S2HJ       S2HK $1.1$ $1.1$ $0.9$ $0.9$ $0.9$ $0.3$ $0.7$ $0.7$ $0.1$ $0.4$ $0.4$ $-0.4$ $0.2$ $0.2$ $0.2$ $0.2$ $0.2$	0.3       0.3       0.2       0.2         0.4       0.4       0.1       0.1         0.2       0.2       0.1       0.1         0.1       0.2       0.2       0.2         0.2       0.2       0.3       0.3         0.2       0.2       0.3       0.3         0.5       0.5       0.3       0.3         0.5       0.5       0.3       0.3         0.4       0.4       0.3       0.3         0.5       0.5       0.3       0.3         0.2       0.2       0.3       0.3         0.4       0.4       0.3       0.3         0.2       0.2       0.3       0.3         0.1       0.1       0.1       0.1         -       -       0.4       0.4         -       0.2       0.2       0.2         nths on same 3 months a year ago       0.9       0.9       0.9         0.9       0.9       0.3       0.3       0.3         0.7       0.7       0.6       0.6         1.1       1.1       0.9       0.9       0.9         0.9       0.9       0.3

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Time series dataset

IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

			Industry components (SIC2007)		
	Public admin	Public admin			
	and defence;	and defence;			Human health
	compulsory	compulsory			and social work
	social security	social security	Education	Education	activities
Component	Ô	84	Р	85	C
2016 weights	61	61	72	72	94
Percentage change, late	est 3 months on previous 3 r	nonths			
J. J	S2CS	S2CT	S2CU	S2CV	S2CW
2017 Dec	0.2	0.2	-0.2	-0.2	-0.4
2018 Jan	0.2	0.2	-0.2	-0.2	0.2
Feb	0.1	0.1	-0.1	-0.1	0.5
Mar	-0.1	-0.1	0.1	0.1	0.6
Apr	-0.1	-0.1	0.3	0.3	0.3
May	0.1	0.1	0.5	0.5	
Jun	0.4	0.4	0.6	0.6	-0.1
Jul	0.8	0.8	0.5	0.5	
Aug	1.1	1.1	0.3	0.3	0.1
Sep	1.0	1.0	0.3	0.3	0.3
Oct	0.6	0.6	0.4	0.4	0.5
Nov	0.1	0.1	0.6	0.6	0.6
Dec	-	-	0.8	0.8	0.5
2019 Jan	0.2	0.2	0.9	0.9	0.5
Feb	0.7	0.7	1.0	1.0	0.4
Mar	1.1	1.1	1.0	1.0	0.5
Apr	1.0	1.0	1.0	1.0	0.4
May	0.6	0.6	0.9	0.9	0.3
Jun	0.2	0.2	0.7	0.7	0.3
Jul	-		0.4	0.4	0.5
Aug	-0.1	-0.1	0.2	0.2	0.8
Sep	-	-	0.3	0.3	0.9
Oct	-	-	0.4	0.4	1.0
Nov	-	-	0.7	0.7	0.8
Dec	-	-	0.7	0.7	0.5

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#### IOS: Index of Services Chained volume indices of gross value added $^{\rm 1,2,3}$

seasonally adjusted 2016 = 100

continued	Industry components (SIC2007)				
			Social work	Arts,	Creative arts
	Human health	Residential care	activities without	entertainment	and entertainment
	activities	activities	accommodation	and recreation	activities
Component	86	87	88	R	90
2016 weights	64	13	17	20	5
_	S2MD	S2ME	S2MF	S2MG	S2MH
2015	97.3	100.7	101.2	101.6	99.0
2016	100.0	100.0	100.0	100.0	100.0
2017	101.0	100.4	101.6	103.2	109.0
2018	101.8	100.9	100.6	104.6	109.2
2019	103.6	105.0	101.3	105.9	112.1
2017 Dee	101.0	99.2	100.0	104.2	100.0
2017 Dec 2018 Jan	101.0 101.3	99.2 99.2	102.3 102.5	104.3 103.8	108.3 108.2
Feb	101.4	99.2	102.3	103.0	108.7
Mar	101.4	99.5	102.3	103.0	110.0
Apr	101.8	99.8	101.3	103.5	110.6
May	101.8	100.3	99.3	104.7	106.5
Jun	101.7	100.9	99.3	104.7	108.7
Jul	101.6	101.4	99.8	103.4	111.6
Aug	101.6	101.8	100.5	103.9	110.1
Sep	102.0	101.9	100.8	104.9	106.8
Oct	102.2	101.9	100.8	106.4	110.7
Nov	102.4	101.5	100.5	105.6	108.7
Dec	102.6	102.6	99.9	106.8	110.0
2019 Jan	102.8	103.5	99.9	105.8	109.3
Feb	102.8	104.2	100.1	105.7	110.6
Mar	102.7	104.5	100.5	106.5	111.6
Apr	102.6	104.4	101.0	104.8	109.9
May	102.8	104.3	101.4	104.2	113.3
Jun	103.2	104.4	101.6	107.5	114.4
Jul	103.6	104.7	101.6	105.5	113.9
Aug	104.1	105.2	101.6	108.3	114.0
Sep	104.4	105.6	101.8	105.2	111.3
Oct	104.5	106.0	102.1	104.9	110.1
Nov	104.5	106.3	102.2	106.7	112.2
Dec	104.6	106.5	102.1	106.1	114.2
Percentage change, lates					
0015	S23J	S23K	S23L	S23M	S23N
2015	2.0	0.1	1.5	0.8	8.7
2016 2017	2.8 1.0	-0.7 0.4	-1.2 1.6	-1.6 3.2	1.1 9.0
2017	0.8	0.4	-0.9	3.2 1.4	9.0 0.2
2018	1.7	4.1	-0.9	1.4	2.6
2019	1.7	4.1	0.7	1.2	2.0
Percentage change, lates	st month on same mont	h a vear ago			
3	S289	S28A	S28B	S28C	S28D
2017 Dec	0.4	-1.6	2.9	3.1	-3.6
2018 Jan	0.4	-2.1	2.3	0.7	-3.2
Feb	0.4	-1.8	1.5	0.6	4.6
Mar	0.5	-1.3	-0.2	-	1.8
Apr	0.5	-0.9	-2.4	0.3	1.0
May	0.4	-0.4	-3.4	1.5	-2.8
Jun	0.4	0.3	-3.2	2.9	-1.8
Jul	0.4	0.9	-1.8	1.2	2.5
Aug	0.5	1.3	-0.7	0.9	-0.4
Sep	0.8	1.6	-0.1	2.1	-1.7
Oct	1.9	2.2	-	2.4	1.1
Nov	1.8	2.7	-0.9	2.2	0.6
Dec	1.6	3.4	-2.3	2.4	1.6
2019 Jan	1.5	4.4	-2.6	1.9	1.1
Feb	1.4	5.0	-2.1	2.5	1.7
Mar	1.1	5.0	-0.8	2.5	1.4
Apr	0.9	4.6	0.9	0.2	-0.6
May	1.0	4.0	2.2	-0.4	6.4
Jun	1.5	3.5	2.3 1.7	2.7 2.1	5.3
lul		0.0		21	2.1
Jul	2.0	3.3			
Aug	2.0 2.4	3.4	1.1	4.2	3.5
Aug Sep	2.0 2.4 2.4	3.4 3.7	1.1 1.0	4.2 0.3	3.5 4.2
Aug Sep Oct	2.0 2.4 2.4 2.2	3.4 3.7 4.1	1.1 1.0 1.3	4.2 0.3 -1.4	3.5 4.2 -0.6
Aug Sep	2.0 2.4 2.4	3.4 3.7	1.1 1.0	4.2 0.3	3.5 4.2

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IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

	Industry components (SIC2007)				
			Social work	Arts,	Creative arts
	Human health activities	Residential care activities	activities without accommodation	entertainment and recreation	and entertainmen activities
Component	86	87	88	R	90
2016 weights	64	13	17	20	5
ercentage change, lates	t month on previous month				
	S23J	S23K	S23L	S23M	S23N
2017 Dec	0.3	-0.2	0.9	0.9	0.3
2018 Jan	0.3	-0.1	0.3	-0.5	-0.1
Feb	0.1	0.1	-0.3	-0.7	0.5
Mar	0.2	0.2	-0.9	0.8	1.2
Apr	0.1	0.4	-1.2	0.7	0.5
May	-	0.5	-0.8	0.1	-3.7
Jun	-0.1	0.6	-	-	2.1
Jul	-0.2	0.5	0.6	-1.2	2.6
Aug	0.1	0.4	0.6	0.5	-1.3
Sep	0.3	0.1	0.3	0.9	-3.0
Oct	0.2	-	-	1.4	3.7
Nov	0.2	0.2	-0.3	-0.7	-1.9
Dec	0.2	0.5	-0.6	1.1	1.2
2019 Jan	0.2	0.9		-1.0	-0.6
Feb		0.7	0.2	-0.1	1.1
Mar	-0.1	0.2	0.4	0.8	0.9
Apr	-0.1	-0.1	0.5	-1.6	-1.5
May	0.2	-0.1	0.4	-0.6	3.1
Jun	0.2	-0.1	0.4	-0.8	3.
Jul	0.4	0.1	0.1	-1.8	-0.5
			-		-0.5
Aug	0.6	0.4		2.6	
Sep	0.3	0.4	0.2	-2.8	-2.4
Oct	-	0.4	0.3	-0.3	-1.(
Nov	-	0.3	0.1	1.7	1.9
Dec	0.1	0.1	-0.1	-0.6	1.8
ercentage change, lates	t 3 months on same 3 month				
	S2HN	S2HO	S2HP	S2HQ	S2HF
2017 Dec	0.1	-1.1	2.2	4.6	6.7
2018 Jan	0.3	-1.7	2.4	2.5	
Feb	0.4	-1.8	2.2	1.5	-0.9
Mar	0.4	-1.7	1.2	0.4	0.9
Apr	0.4	-1.3	-0.4	0.3	2.4
May	0.5	-0.9	-2.0	0.6	
Jun	0.4	-0.4	-3.0	1.6	-1.2
Jul	0.4	0.2	-2.8	1.9	-0.7
Aug	0.5	0.2	-1.9	1.5	0.1
Sep	0.6	1.3	-0.8	1.4	0.1
Oct	1.1	1.3	-0.8	1.4	-0.3
Nov	1.1	2.2	-0.2	2.2	-0.0
Dec 0010 Jan	1.8	2.8	-1.1	2.3	1.1
2019 Jan	1.6	3.5	-1.9	2.2	1.1
Feb	1.5	4.3	-2.4	2.3	1.
Mar	1.3	4.8	-1.9	2.3	1.4
Apr	1.1	4.9	-0.7	1.8	0.8
May	1.0	4.5	0.8	0.8	2.4
Jun	1.1	4.0	1.8	0.8	3.7
Jul	1.5	3.6	2.1	1.4	4.6
Aug	2.0	3.4	1.7	3.0	3.6
Sep	2.3	3.4	1.3	2.2	3.3
Oct	2.4	3.7	1.1	1.0	2.3
Nov	2.2	4.0	1.4	-	2.3
Dec	2.0	4.0	1.7	-0.3	2.2

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#### IOS: Index of Services Chained volume indices of gross value added <sup>1,2,3</sup>

seasonally adjusted 2016 = 100

			Industry components (SIC20	07)	
	Human health activities	Residential care activities	Social work activities without accommodation	Arts, entertainment and recreation	Creative arts and entertainmen activities
Component	86	87	88	R	90
2016 weights	64	13	17	20	50
Percentage change, late	st 3 months on previous 3	months			
	S2CX	S2CY	S2CZ	S2D2	S2D3
2017 Dec	-0.5	-0.9	0.2	1.2	-0.7
2018 Jan	0.1	-0.8	1.1	0.6	-1.3
Feb	0.5	-0.6	1.3	0.3	-0.3
Mar	0.8	-0.2	0.6	-0.3	0.3
Apr	0.6	0.2	-0.8	-	1.
May	0.5	0.7	-2.1	0.7	0.0
Jun	0.3	1.1	-2.4	1.1	-0.4
Jul	0.1	1.4	-1.7	0.4	-0.8
Aug	-0.1	1.5	-0.4	-0.4	1.
Sep	-	1.3	0.8	-0.6	0.0
Oct	0.2	1.0	1.2	0.8	0.3
Nov	0.6	0.6	0.8	1.6	-1.3
Dec	0.7	0.5	-	2.1	0.3
2019 Jan	0.7	0.9	-0.6	0.9	0.
Feb	0.5	1.5	-0.7	0.4	1.1
Mar	0.3	1.8	-0.2	-0.3	0.0
Apr	0.1	1.6	0.5	-0.4	1.:
May	-	0.9	1.0	-0.9	1.
Jun	0.1	0.3	1.2	-0.4	1.9
Jul	0.5	0.1	1.0	0.1	2.9
Aug	0.9	0.4	0.6	1.8	2.3
Sep	1.1	0.8	0.3	0.8	0.4
Oct	1.1	1.1	0.3	0.4	-1.8
Nov	0.8	1.2	0.5	-1.4	-2.5
Dec	0.4	1.1	0.4	-0.4	-0.8

1 Indices reflect values measured at basic prices, which exclude "taxes less a indices reliect values integrated at basic prices, which exclude taxes less subsidies on products<sup>a</sup>.
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# IOSCOMP IOS: Index of Services Chained volume indice

Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

continued		or gross value adde			sonally aujusted 2010 -
	Libraries,		Industry components (SIC	2007)	<u> </u>
	museums and	Gambling	Sports activities		Activities of
	other cultural	and betting	and recreation	Other service	membership
	activities	activities	activities	activities	organisations
Component	91	92	93	S	94
2016 weights	2	5	8	21	5
2010 Weights	S2MI	S2MJ	S2MK	S2ML	S2MM
2015	97.6	107.8	100.1	106.5	101.0
2016	100.0	100.0	100.0	100.0	100.0
2017	101.5	99.3	102.4	101.1	97.3
2018	104.4	104.8	101.9	101.6	101.6
2019	103.1	102.0	105.2	101.9	110.2
2015	100.1	102.0	103.2	101.5	110.2
2017 Dec	104.3	100.6	104.2	100.5	94.0
2018 Jan	104.4	102.7	101.7	101.6	95.6
Feb	101.6	104.9	99.0	100.5	97.1
Mar	106.6	104.5	98.5	102.5	97.8
Apr	105.1	106.3	100.1	102.0	98.2
	105.7	105.9			
May			102.8	102.2	99.2
Jun	105.0	104.9	102.1	102.9	101.3
Jul	105.4	104.0	97.9	102.5	103.8
Aug	102.8	103.7	100.7	102.6	105.5
Sep	103.3	104.2	104.6	101.0	105.8
Oct	103.1	105.0	105.3	101.2	105.2
Nov	107.3	105.3	103.7	100.3	104.7
Dec	102.5	104.7	107.0	99.3	105.1
2019 Jan	102.3	103.6	105.6	98.5	106.3
Feb	106.8	102.4	104.5	99.4	107.6
Mar	103.0	101.6	107.0	99.5	108.6
Apr	102.3	101.1	104.5	99.4	109.2
May	103.3	101.0	101.0	101.0	109.6
Jun	103.9	101.0	107.8	102.1	109.9
Jul	104.5	101.3	103.3	102.8	110.3
Aug	104.2	101.7	109.6	102.0	110.9
Sep	104.2	102.1	104.2	103.8	111.7
Oct	101.2				
		102.5	103.9	104.0	112.4
Nov	101.5	102.9	106.8	103.9	112.8
Dec	102.8	103.1	103.8	104.3	112.6
Percentage change.	atest year on previous year				
· · · · · · · · · · · · · · · · · · ·	S23O	S23P	S23Q	S23R	S23S
2015	-12.4	2.6	-2.6	4.0	
2016	2.5	-7.2	-0.1	-6.1	-1.0
2017	1.5	-0.7	2.4	1.1	-2.7
2018	2.9	5.6	-0.5	0.4	4.4
2019	-1.2	-2.7	3.2	0.4	8.4
2015	-1.2	-2.1	0.2	0.0	0.4
Percentage change, I	atest month on same month a				
	S28E	S28F	S28G	S28H	S28I
2017 Dec	2.3	6.6	5.9	-0.4	-5.9
2018 Jan	1.5	6.0	0.1	1.4	-3.5
Feb	-2.7	3.7	-2.8	2.1	-1.0
Mar	5.4	0.8	-2.6	2.3	-
Apr	1.4	10.7	-5.8	0.3	-
May	5.9	10.4	-1.4	-0.1	0.5
Jun	4.6	8.4	2.5	1.8	2.6
Jul	7.1	6.7	-3.8	1.8	4.7
Aug	1.6	4.9	-0.6	-0.4	6.8
Sep	2.6	5.1	2.6	-1.5	9.0
Oct	1.0	2.9	3.1	-0.5	10.9
Nov	8.6	4.2	0.8	-0.8	12.0
Dec	-1.7	4.0	2.7	-1.2	11.8
2019 Jan	-2.0	0.9	3.9	-1.2	11.2
Feb	5.1	-2.3	5.6	-1.1	
Mar	-3.4	-2.3	8.7	-2.9	10.8 11.0
Apr	-2.7	-4.9	4.4	-2.6	11.2
May	-2.3	-4.6	-1.7	-1.2	10.5
Jun	-1.0	-3.7	5.6	-0.9	8.5
Jul	-0.9	-2.6	5.6	0.3	6.2
Aug	1.3	-1.9	8.8	1.0	5.0
Sep	-1.6	-2.0	-0.4	2.8	5.6
Oct	-1.9	-2.3	-1.3	2.8	6.9
Nov	-5.4	-2.3	3.0	3.6	7.8
Dec	0.3	-1.5	-3.0	5.0	7.1

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IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

ntinued Industry components (SIC2007)					
	Libraries,		industry components (SIC200	11)	
	museums and	Gambling	Sports activities		Activities of
	other cultural	and betting	and recreation	Other service	membership
	activities	activities	activities	activities	organisations
Component	91	92	93	S	94
2016 weights	2	5	8	21	5
Percentage change late	st month on previous month				
ereentage enange, later	S230	S23P	S23Q	S23R	S23S
2017 Dec	5.6	-0.5	1.3	-0.6	0.5
2018 Jan	0.1	2.1	-2.4	1.0	1.7
Feb	-2.7	2.1	-2.6	-1.1	1.6
Mar	4.9	1.2	-0.5	2.1	0.7
Apr	-1.4	0.2	1.6	-0.4	0.4
May	0.6	-0.5	2.7	0.1	1.0
Jun	-0.7	-0.9	-0.7	0.7	2.1
Jul	0.5	-0.9	-4.1	-0.5	2.5
Aug	-2.5	-0.3	2.9	0.2	1.7
Sep	0.5	0.5	3.8	-1.6	0.2
Oct	-0.2	0.8	0.7	0.2	-0.6
Nov	4.1	0.3	-1.5	-0.9	-0.4
Dec	-4.5	-0.6	3.2	-0.9	0.4
2019 Jan	-0.2	-1.0	-1.3	-0.8	1.2
Feb	4.4	-1.1	-1.0	0.9	1.2
Mar	-3.5	-0.8	2.4	0.1	0.9
Apr	-0.7	-0.5	-2.4	-0.1	0.5
May	1.0	-0.2	-3.3	1.6	0.5
Jun	0.5	-0.2	6.7	1.0	0.4
Jul	0.5	0.1	-4.1	0.7	0.3
Aug	-0.3	0.2	-4.1	0.7	0.4
Sep	-0.3 -2.5	0.4	-5.0	0.9	0.5
	-2.5 -0.4	0.4	-0.2	0.1	0.7
Oct Nov	-0.4 0.3	0.4	-0.2 2.7	-0.1	0.7
Dec	1.3	0.3	-2.8	-0.1	-0.2
Dec	1.0	0.2	-2.0	0.4	-0.2
ercentage change, lates	st 3 months on same 3 months				
	S2HS	S2HT	S2HU	S2HV	S2HW
2017 Dec	-3.6	8.9	2.6	1.0	-5.3
2018 Jan	-0.6	7.5	1.8	0.6	-5.2
Feb	0.3	5.4	1.0	1.0	-3.5
Mar	1.3	3.4	-1.8	2.0	-1.5
Apr	1.3	4.9	-3.8	1.6	-0.3
May	4.2	7.1	-3.3	0.8	0.2
Jun	3.9	9.8	-1.7	0.7	1.0
Jul	5.9	8.5	-0.9	1.2	2.6
Aug		6.7	-0.7	1.1	4.7
	4.4				
Sep	3.8	5.6	-0.6	-	6.8
Sep Oct	3.8 1.7	5.6 4.3	-0.6 1.7	-0.8	6.8 8.9
Sep Oct Nov	3.8 1.7 4.0	5.6 4.3 4.1	-0.6 1.7 2.2	- -0.8 -1.0	6.8 8.9 10.6
Sep Oct Nov Dec	3.8 1.7 4.0 2.5	5.6 4.3 4.1 3.7	-0.6 1.7 2.2 2.2	-0.8 -1.0 -0.8	6.8 8.9 10.6 11.6
Sep Oct Nov Dec 2019 Jan	3.8 1.7 4.0 2.5 1.5	5.6 4.3 4.1 3.7 3.0	-0.6 1.7 2.2 2.2 2.5	-0.8 -1.0 -0.8 -1.7	6.8 8.9 10.6 11.6 11.7
Sep Oct Nov Dec 2019 Jan Feb	3.8 1.7 4.0 2.5 1.5 0.4	5.6 4.3 4.1 3.7 3.0 0.8	-0.6 1.7 2.2 2.2 2.5 4.0	-0.8 -1.0 -0.8 -1.7 -1.7	6.8 8.9 10.6 11.6 11.7 11.3
Sep Oct Nov Dec 2019 Jan Feb Mar	3.8 1.7 4.0 2.5 1.5 0.4 -0.2	5.6 4.3 4.1 3.7 3.0 0.8 -1.9	-0.6 1.7 2.2 2.2 2.5 4.0 6.0	-0.8 -1.0 -0.8 -1.7 -1.7 -2.3	6.8 8.9 10.6 11.6 11.7 11.3 11.0
Sep Oct Nov Dec 2019 Jan Feb Mar Apr	3.8 1.7 4.0 2.5 1.5 0.4 -0.2 -0.4	5.6 4.3 4.1 3.7 3.0 0.8 -1.9 -3.8	-0.6 1.7 2.2 2.5 4.0 6.0 6.2	-0.8 -1.0 -0.8 -1.7 -1.7 -2.3 -2.2	6.8 8.9 10.6 11.6 11.7 11.3 11.0 11.0
Sep Oct Nov Dec 2019 Jan Feb Mar	3.8 1.7 4.0 2.5 1.5 0.4 -0.2 -0.4 -2.8	5.6 4.3 4.1 3.7 3.0 0.8 -1.9 -3.8 -4.6	-0.6 1.7 2.2 2.5 4.0 6.0 6.2 3.7	-0.8 -1.0 -0.8 -1.7 -1.7 -2.3	6.8 8.9 10.6 11.6 11.7 11.3 11.0 11.0 11.0 10.9
Sep Oct Nov Dec 2019 Jan Feb Mar Apr	3.8 1.7 4.0 2.5 1.5 0.4 -0.2 -0.4	5.6 4.3 4.1 3.7 3.0 0.8 -1.9 -3.8	-0.6 1.7 2.2 2.5 4.0 6.0 6.2	-0.8 -1.0 -0.8 -1.7 -1.7 -2.3 -2.2	6.8 8.9 10.6 11.6 11.7 11.3 11.0 11.0
Sep Oct Nov Dec 2019 Jan Feb Mar Apr May	3.8 1.7 4.0 2.5 1.5 0.4 -0.2 -0.4 -2.8	5.6 4.3 4.1 3.7 3.0 0.8 -1.9 -3.8 -4.6	-0.6 1.7 2.2 2.5 4.0 6.0 6.2 3.7	-0.8 -1.0 -0.8 -1.7 -1.7 -2.3 -2.2 -2.3	6.8 8.9 10.6 11.6 11.7 11.3 11.0 11.0 11.0 10.9
Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun	3.8 1.7 4.0 2.5 1.5 0.4 -0.2 -0.4 -2.8 -2.0	5.6 4.3 4.1 3.7 3.0 0.8 -1.9 -3.8 -4.6 -4.4	-0.6 1.7 2.2 2.5 4.0 6.0 6.2 3.7 2.8	-0.8 -1.0 -0.8 -1.7 -1.7 -2.3 -2.2 -2.3 -1.6	6.8 8.9 10.6 11.6 11.7 11.3 11.0 11.0 10.0 8.4
Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul	3.8 1.7 4.0 2.5 1.5 0.4 -0.2 -0.4 -2.8 -2.0 -1.4	5.6 4.3 4.1 3.7 3.0 0.8 -1.9 -3.8 -4.6 -4.4 -3.7	-0.6 1.7 2.2 2.5 4.0 6.0 6.2 3.7 2.8 3.1	- -0.8 -1.0 -0.8 -1.7 -2.3 -2.2 -2.3 -1.6 -0.6	6.8 8.9,9 10.6 11.6 11.7 11.3 11.0 10.9 10.0 8.4 6.6
Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug	3.8 1.7 4.0 2.5 1.5 0.4 -0.2 -0.4 -2.8 -2.0 -1.4 -0.2	5.6 4.3 4.1 3.7 3.0 0.8 -1.9 -3.8 -4.6 -4.4 -3.7 -2.8	-0.6 1.7 2.2 2.5 4.0 6.0 6.2 3.7 2.8 3.1 6.7	-0.8 -1.0 -0.8 -1.7 -1.7 -2.3 -2.2 -2.3 -1.6 -0.6 0.2	6.8 8.9,9 10.6 11.6 11.7 11.3 11.0 10.9 10.0 8.4 6.6 5.6
Sep Oct Nov Dec 2019 Jan Feb Mar Apr May Jun Jul Aug Sep	3.8 1.7 4.0 2.5 1.5 0.4 -0.2 -0.4 -2.8 -2.0 -1.4 -0.2 -0.4	5.6 4.3 4.1 3.7 3.0 0.8 -1.9 -3.8 -4.6 -4.4 -3.7 -2.8 -2.2	-0.6 1.7 2.2 2.5 4.0 6.0 6.2 3.7 2.8 3.1 6.7 4.6	-0.8 -1.0 -0.8 -1.7 -1.7 -2.3 -2.3 -2.3 -1.6 -0.6 0.2 1.4	6.8 8.9 10.6 11.6 11.7 11.3 11.0 11.0 11.0 10.9 10.0

1 Indices reflect values measured at basic prices, which exclude "taxes less

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IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

			Industry components (SIC200	7)	
	Libraries,		• • •		
	museums and	Gambling	Sports activities		Activities of
	other cultural	and betting	and recreation	Other service	membershi
	activities	activities	activities	activities	organisation
Component	91	92	93	S	
2016 weights	2	5	8	21	94
Percentage change, late	st 3 months on previous 3 m	onths			
J	S2D4	S2D5	S2D6	S2D7	S2D8
2017 Dec	1.6	2.8	1.3	-0.9	-4.3
2018 Jan	1.2	1.5	1.1	-1.4	-2.6
Feb	2.9	2.0	-0.7	-0.9	0.5
Mar	2.4	3.3	-3.2	0.4	3.0
Apr	1.9	4.2	-3.6	0.6	3.
May	2.3	3.3	-1.1	1.4	3.0
Jun	1.0	1.1	1.9	0.9	2.8
Jul	0.9	-0.8	1.8	0.8	3.8
Aug	-1.3	-1.8	-0.2	0.4	5.3
Sep	-1.3	-1.7	-0.6	-0.4	5.
Oct	-2.2	-0.6	2.6	-0.9	4.0
Nov	0.1	0.6	4.3	-1.8	1.0
Dec	0.4	1.0	4.2	-1.7	-0.
2019 Jan	0.9	0.3	1.8	-2.2	-0.1
Feb	-0.7	-1.2	1.2	-1.7	1.1
Mar	-0.3	-2.3	0.4	-1.1	2.4
Apr	-	-2.7	-0.1	0.1	3.0
May	-0.9	-2.3	-1.4	0.9	2.
Jun	-0.8	-1.5	-1.2	1.7	1.
Jul	-0.1	-0.6	-1.2	2.5	1.
Aug	1.3	0.1	2.6	2.9	1.
Sep	0.2	0.6	1.2	2.6	1.
Oct	-1.5	1.0	1.8	1.8	1.
Nov	-2.7	1.2	-1.8	1.0	1.
Dec	-1.6	1.1	-0.8	0.6	1.5

1 Indices reflect values measured at basic prices, which exclude "taxes less a indices reliect values integrated at basic prices, which exclude taxes less subsidies on products<sup>a</sup>.
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IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

			Industry components (SIC2	007)	
	Repair of				
	computers	Other personal	Activities of	Activities of	
	and household	service	households	households	
	goods	activities	as employers	as employers	
Component	95	96		97	
2016 weights	2	13	4	4	
0015	S2MN	S2MO	S2MP	S2MQ	
2015	104.7	109.2	84.0	84.0	
2016	100.0	100.0	100.0	100.0	
2017	114.0	100.6	101.6	101.6	
2018	117.1	99.2	105.4	105.4	
2019	115.3	96.6	95.6	95.6	
0017 Dee	117 1	100 F	101.4	101.4	
2017 Dec 2018 Jan	117.1 114.2	100.5 101.9	101.4	101.4 102.1	
			102.1		
Feb	114.1	99.7	102.1 104.5	102.1	
Mar	116.9	102.2		104.5	
Apr	116.8	101.4	104.9	104.9	
May	117.3	101.1	104.3	104.3	
Jun	119.8	101.0	105.3	105.3	
Jul	114.5	100.1	106.5	106.5	
Aug	117.1	99.3	107.7	107.7	
Sep	116.7	96.7	107.6	107.6	
Oct	117.2	97.3	107.6	107.6	
Nov	119.6	95.6	106.5	106.5	
Dec	121.1	93.7	105.8	105.8	
2019 Jan	119.0	92.3	104.4	104.4	
Feb	116.1	93.6	101.9	101.9	
Mar	112.2	94.1	97.4	97.4	
Apr	112.2	93.4	95.7	95.7	
May	113.4	95.8	94.2	94.2	
Jun	111.7	97.5	96.1	96.1	
Jul	117.0	97.7	96.9	96.9	
Aug	113.5	99.4	96.9	96.9	
Sep	115.0	99.0	94.5	94.5	
Oct	120.9	98.2	90.6	90.6	
Nov	115.3	98.7	88.9	88.9	
Dec	115.2	99.4	89.9	89.9	
Percentage change, lat	est year on previous year				
	S23T	S23U	S23V	S23W	
2015	11.2	4.8	0.3	0.3	
2016	-4.5	-8.5	19.0	19.0	
2017	14.0	0.6	1.6	1.6	
2018	2.7	-1.5	3.7	3.7	
2019	-1.6	-2.6	-9.3	-9.3	
Percentage change, lat	est month on same month a	i year ago			
	S28J	S28K	S28L	S28M	
2017 Dec	9.7	-	4.3	4.3	
2018 Jan	4.4	2.8	6.1	6.1	
Feb	8.0	2.4	4.4	4.4	
Mar	3.0	3.1	4.8	4.8	
Apr	6.8	-0.6	3.4	3.4	
May	1.8	-0.6	1.9	1.9	
Jun	5.4	0.9	1.0	1.0	
Jul	-1.2	1.2	0.8	0.8	
Aug	-0.7	-3.1	3.4	3.4	
	-0.7 -1.4	-5.4			
Sep			2.8	2.8	
Oct	-1.0	-4.6	6.6	6.6	
Nov	5.1	-6.4	5.7	5.7	
Dec	3.4	-6.8	4.3	4.3	
2019 Jan	4.2	-9.4	2.3	2.3	
Feb	1.8	-6.1	-0.2	-0.2	
Mar	-4.0	-7.9	-6.8	-6.8	
Apr	-2.5	-7.9	-8.8	-8.8	
May	-3.3	-5.3	-9.8	-9.8	
Jun	-6.7	-3.4	-8.8	-8.8	
Jul	2.2	-2.4	-9.0	-9.0	
	-3.1	-2.4	-9.0	-10.0	
Aug					
Sep	-1.5	2.4	-12.2	-12.2	
Oct	3.2	0.9	-15.8	-15.8	
Nov	-3.6	3.2	-16.6	-16.6	
Dec	-4.9	6.0	-15.0	-15.0	

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IOS: Index of Services Chained volume indices of gross value added  $^{\rm 1,2,3}$ 

seasonally adjusted 2016 = 100

continued	_		ndustry components (SIC200	7)	
	Repair of				
	computers	Other personal	Activities of	Activities of	
	and household	service	households	households	
	goods	activities	as employers	as employers	
Component	95	96	T	97	
2016 weights	2	13	4	4	
2010 weights	2	15			
Percentage change, lates	t month on previous month S23T	S23U	S23V	\$23W	
2017 Dec	2.9	-1.6	0.7	0.7	
2017 Dec 2018 Jan	-2.5	-1.6	0.6	0.7	
Feb	-0.1	-2.2	0.1	0.1	
Mar	2.5	2.5	2.3	2.3	
Apr	-0.1	-0.8	0.4	0.4	
May	0.4	-0.2	-0.5	-0.5	
Jun	2.1	-0.1	1.0	1.0	
Jul	-4.4	-0.9	1.1	1.1	
Aug	2.3	-0.8	1.2	1.2	
Sep	-0.4	-2.6	-0.1	-0.1	
Oct	0.4	0.5	-	-	
Nov	2.1	-1.7	-1.0	-1.0	
Dec	1.3	-2.0	-0.7	-0.7	
2019 Jan	-1.7	-1.5	-1.3	-1.3	
Feb	-2.4	1.4	-2.4	-2.4	
Mar	-3.3	0.5	-4.4	-4.4	
Apr	1.5	-0.7	-1.8	-1.8	
May	-0.4	2.6	-1.6	-1.6	
Jun	-1.5	1.8	2.1	2.1	
Jul	4.7	0.2	0.8	0.8	
Aug	-3.0	1.7	0.0	0.0	
Sep	1.3	-0.3	-2.5	-2.5	
Oct	5.2	-0.9	-2.5	-4.1	
Nov	-4.7	-0.9	-4.1	-4.1	
Dec	-4.7	0.5	-2.0	-2.0	
Porcontago obongo lotoo	t 3 months on same 3 mont				
ercentage change, lates	S2HX	S2HY	S2HZ	S2I2	
2017 Dec	14.6	1.2	2.0	2.0	
2018 Jan	9.1	1.5	4.0	4.0	
Feb	7.3	1.7	4.9	4.9	
Mar	5.0	2.8	5.1	5.1	
Apr	5.9	1.6	4.2	4.2	
May	3.8	0.6	3.3	3.3	
Jun	4.6	-0.1	2.1	2.1	
Jul	2.0	0.5	1.2	1.2	
Aug	1.1	-0.4	1.7	1.7	
Sep	-1.1	-2.5	2.3	2.3	
Oct	-1.0	-4.4	4.2	4.2	
Nov	0.9	-5.5	5.0	5.0	
Dec	2.5	-5.9	5.5	5.5	
2019 Jan	4.3	-5.9	4.1	5.5 4.1	
2019 Jan Feb	4.3	-7.5 -7.4	2.1	2.1	
	3.1		-1.6	-1.6	
Mar		-7.8			
Apr	-1.6	-7.3	-5.3	-5.3	
May	-3.3	-7.0	-8.4	-8.4	
Jun	-4.2	-5.5	-9.1	-9.1	
Jul	-2.7	-3.7	-9.2	-9.2	
Aug	-2.6	-1.9	-9.3	-9.3	
Sep	-0.8	-	-10.4	-10.4	
Oct	-0.5	1.1	-12.7	-12.7	
Nov	-0.7	2.2	-14.8	-14.8	
Dec	-1.8	3.4	-15.8	-15.8	

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seasonally adjusted 2016 = 100

			Industry components (SIC200	07)
	Repair of			
	computers	Other personal	Activities of	Activities of
	and household	service	households	households
	goods	activities	as employers	as employers
Component	95	96	Т	97
2016 weights	2	13	4	4
Percentage change, late	est 3 months on previous 3	months		
	S2D9	S2DA	S2DB	S2DC
2017 Dec	-0.8	0.3	-3.6	-3.6
2018 Jan	-2.7	-0.6	-1.8	-1.8
Feb	-1.4	-1.4	-0.3	-0.3
Mar	-1.1	-0.3	1.8	1.8
Apr	0.8	-0.5	2.4	2.4
May	1.7	0.8	2.7	2.7
Jun	2.5	-0.1	1.9	1.9
Jul	1.1	-0.3	1.5	1.5
Aug	0.1	-1.4	1.9	1.9
Sep	-1.6	-2.4	2.3	2.3
Oct	-0.2	-3.0	2.1	2.1
Nov	0.6	-3.6	0.7	0.7
Dec	2.8	-3.2	-0.6	-0.6
2019 Jan	2.5	-4.0	-1.9	-1.9
Feb	0.8	-3.4	-3.0	-3.0
Mar	-2.9	-2.3	-5.0	-5.0
Apr	-4.9	-0.2	-6.8	-6.8
May	-4.7	1.3	-8.0	-8.0
Jun	-2.4	2.4	-5.9	-5.9
Jul	-	3.5	-2.7	-2.7
Aug	0.8	4.0	0.9	0.9
Sep	1.9	3.3	0.8	0.8
Oct	2.1	1.9	-1.8	-1.8
Nov	2.6	0.4	-5.5	-5.5
Dec	1.7	-	-6.6	-6.6

1 Indices reflect values measured at basic prices, which exclude "taxes less

Indices reliect values measured at basic prices, which exclude taxes less subsidies on products".
 Estimates cannot be regarded as accurate to the last digit shown.
 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
 A complete run of data is available on the ONS website as a <u>Time series dataset</u>