

# Data in the spotlight: International Time Series Data

David Rawnsley

6 December 2022



# What we will cover today

Introduction

International macrodata

Demo

Documentation and tips

Questions



# What is the UK Data Service?

- A comprehensive resource funded by the ESRC
- A single point of access to a wide range of secondary social science data
- Support, training and guidance

# What data do we hold?

## Surveys

Large-scale government funded UK and cross-national surveys

## Longitudinal

Major UK surveys following individuals over time

## International

Multi-nation aggregate databanks and survey data

## Census

Census data 1971 – 2011 + 2021/22

## Business

Microdata and administrative data

## Qualitative

Range of multimedia qualitative data sources

Repository for researcher generated datasets



# Welcome to the UK Data Service

Trusted access and training to use the UK's largest collection of economic, social and population data for research and teaching

[Search](#)

## Key services

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# International macrodata: data about countries

- Time series data aggregated to country/region
- International governmental organisations
- Wide range of socio-economic topics
- Availability



# Data providers

- International Monetary Fund (IMF)
- Organisation for Economic Co-operation and Development (OECD)
- World Bank
- United Nations
- International Energy Agency (IEA)



# International data themes

## **Databanks cover:**

- economic performance and development
- trade, industry and markets
- employment
- demography, migration and health
- governance
- human development
- social expenditure
- education
- science and technology
- land use and the environment
- energy





# International macrodata

HIDE NAVI

→ Variables		Total population of the metropolitan area (persons)					
→ Time		2009	2010	2011	2012	2013	2014
→ Metropolitan areas							
Australia		21 691 653	22 031 750	22 340 024	22 728 254	23 125 868	23 490 736
Australia	Adelaide	1 237 354	1 253 097	1 264 091	1 278 600	1 291 377	1 304 631
	Brisbane	2 068 479	2 108 348	2 147 436	2 193 316	2 236 044	2 274 560
	Gold Coast-Tweed Heads	509 133	519 630	528 766	540 527	551 123	560 266
	Melbourne	4 031 787	4 105 857	4 169 366	4 252 458	4 344 673	4 440 328
	Perth	1 739 342	1 781 132	1 833 567	1 904 858	1 972 849	2 021 203
	Sydney	4 492 380	4 555 516	4 608 949	4 676 118	4 756 398	4 840 628
Austria		8 335 003	8 351 643	8 375 164	8 408 121	8 451 860	8 506 889
Austria	Graz	602 465	608 420	614 454	620 587	626 826	633 168
	Linz	604 006	606 514	609 054	611 622	614 214	616 829
	Vienna	2 656 523	2 683 251	2 710 331	2 737 753	2 765 519	2 793 631
Belgium		10 753 080	10 839 905	10 951 266	11 035 948	11 099 554	11 203 992
Belgium	Antwerp	1 046 834	1 053 725	1 060 675	1 067 688	1 074 765	1 081 904
	Brussels	2 460 663	2 485 480	2 510 626	2 536 106	2 561 930	2 588 102
	Ghent	572 560	576 408	580 281	584 187	588 127	592 100
	Liege	723 142	726 431	729 740	733 071	736 425	739 798
Canada		33 628 571	34 005 274	34 342 780	34 752 128	35 154 279	35 540 419
Canada	Calgary	1 237 622	1 271 737	1 306 924	1 342 733	1 379 633	1 417 661

Data extracted on 30 Nov 2016 12:24 UTC (GMT) from UKDS.Stat



# Accessing the international macrodata

- World Bank IMF, OECD, UNESCO data are open to all
- Other data restricted to UK FE and HE (UNIDO, IEA)
- Access via Federated access
- Data delivered over the web via UKDS.stat
- Download formats include \*.xls, \*.csv



# Catalogue record

Home > Data catalogue > Studies > Study

## World Bank World Development Indicators, 1960-2020

Details

Documentation

Resources

Access data

### Details

Title:	World Bank World Development Indicators, 1960-2020
Alternative title:	WDI
Study number (SN):	4814
Access:	These data are <a href="#">open</a>
Persistent identifier (DOI):	<a href="https://doi.org/10.5257/wb/wdi/2020Q4">10.5257/wb/wdi/2020Q4</a>
Principal investigator(s):	World Bank Group

### Sponsors and contributors

### Citation and copyright

The citation for this study is:

World Bank Group. (2021). *World Bank World Development Indicators, 1960-2020*. [data collection]. 27th Edition. UK Data Service. SN: 4814, DOI: [10.5257/wb/wdi/2020Q4](https://doi.org/10.5257/wb/wdi/2020Q4)

# UKDS.Stat



**Data by Provider** | **Example Queries**

Search Dataset Titles

All Providers

- International Energy Agency
- World Bank
- OECD
- United Nations
- Human Rights Atlas
- International Monetary Fund

## Welcome to international aggregate data from the UK Data Service

We expect to run as normal a service as possible during this COVID-19 (Coronavirus) emergency. Please visit our [COVID-19](#) page for the latest information.

We host hundreds of economic and social datasets provided by the World Bank, OECD, International Monetary Fund, United Nations, and International Energy Agency. Key datasets include World Energy Balances, World Development Indicators, Balance of Payments Statistics, Direction of Trade Statistics, International Financial Statistics, World Economic Outlook, Main Economic Indicators, Quarterly National Accounts, and the Human Rights Atlas. Datasets also cover statistics on science, environment, education, health, and in depth regional statistics.

Find your dataset in the data provider facet on the left hand side of the screen, or view the video [Accessing, exploring and visualising data in UKDS.Stat](#) to get started.

stats.ukdataservice.ac.uk

# International macrodata

**Data by Provider** | Example Queries

Search Dataset Titles

All Providers

- International Energy Agency
- World Bank
- OECD
- United Nations
- Human Rights Atlas
- International Monetary Fund
  - Balance of Payments Statistics
  - Direction of Trade Statistics
  - Government Finance Statistics
  - International Financial Statistics
  - World Economic Outlook
    - [World Economic Outlook by Country \(April 2019 Edition\)](#)
    - [World Economic Outlook by Group \(April 2019 Edition\)](#)

## World Economic Outlook by Country

Series	Gross domestic product, constant prices (National currency)							
Time	2010	2011	2012	2013	2014	2015	2016	2017
Location								
Afghanistan	362.857	386.368	440.336	465.358	477.909	482.629	493.073	506.215
Albania	673.204	690.339	700.125	707.292	719.913	735.802	760.426	789.653
Algeria	5 988.56	6 157.62	6 366.42	6 544.68	6 793.38	7 044.73	7 270.16	7 371.95
Angola	1 307.7	1 353.11	1 468.69	1 541.46	1 615.8	1 631.04	1 588.96	1 586.58
Antigua and Barbuda	2.783	2.725	2.821	2.818	2.949	3.068	3.216	3.333
Argentina	670.524	710.782	703.486	720.407	702.306	721.487	706.478	725.331
Armenia	2 709.92	2 837.27	3 039.69	3 140	3 253.22	3 359.08	3 367.85	3 619.71
Australia	1 481.35	1 522.3	1 581.3	1 615.09	1 657.75	1 698.54	1 745.74	1 787.33
Austria	295.897	304.545	306.617	306.696	308.724	312.252	318.621	326.749
Azerbaijan	26.777	26.356	26.936	28.51	29.308	29.616	28.708	28.739
Bahrain	9.668	9.86	10.228	10.782	11.251	11.574	11.975	12.43

Legend:  
x Not Applicable

Data extracted on 12 Nov 2019 09:36 UTC (GMT) from MyOECD

### Information

World Economic Outlook by Country

**Database Specific**

**Abstract**

The International Monetary Fund (IMF) World Economic Outlook (WEO) database contains selected macroeconomic data series from the statistical appendix of the World Economic Outlook report, which presents the IMF staff's analysis and projections of economic developments at the global level, in major country groups and in many individual countries.

**Source**

Contact person/organisation

**Get in touch**

Name of collection/source  
IMF World Economic Database

Date last input received  
April 2019

Direct source

Bibliographic citation:  
International Monetary Fund: World Economic Outlook (April 2019 Edition). UK



# World Bank Databases



- Collects data on all aspects of human development worldwide
- Annual data, designed for international comparability
- Open access
- Host 4 databases:
  - World Development Indicators
  - International Debt Statistics
  - Africa Development Indicators
  - Subnational Population Database



# World Development Indicators



- Covers over 200 countries
- Annual data starting 1960
- Widely cited
- Our most popular database

**Around 1400 indicators per country**



# World Development Indicators: example

**World Development Indicators** ⓘ

Customise ▾ Export ▾ My Queries ▾

→ Subject	Individuals using the Internet (% of population)								
→ Time	2011	2012	2013	2014	2015	2016	2017	2018	2019
→ Location									
Angola	3.10	6.50	8.90	21.40	12.40	13.00	14.34	14.34	14.34
Belgium	81.61	80.72	82.17	85.00	85.05	86.52	87.68	88.66	90.37
Maldives	34.00	38.93	44.10	49.28	54.46	59.09	63.19	63.19	63.19
Nepal	9.00	11.15	13.30	15.44	17.58	19.69	34.00	34.00	34.00
Poland	61.95	62.31	62.85	66.60	68.00	73.30	75.99	77.54	84.52
South Africa	33.97	41.00	46.50	49.00	51.92	54.00	56.17	56.17	56.17
Sweden	92.77	93.18	94.78	92.52	90.61	89.65	95.51	92.14	94.49
United Kingdom	85.38	87.48	89.84	91.61	92.00	94.78	94.62	94.90	92.52

World Bank (2020): World Development Indicators (Data downloaded: February 2021). UK Data Service. <https://doi.org/10.5257/wb/wdi/2020Q4>

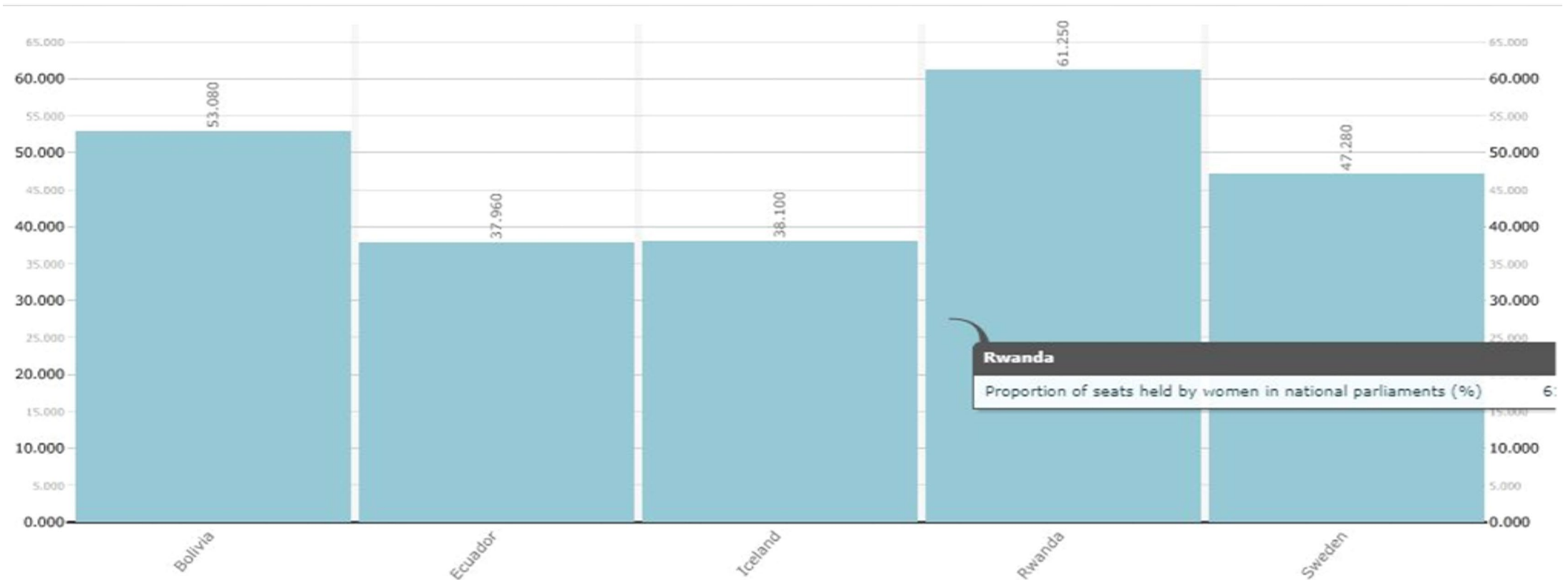




Which country had the largest proportion of women in parliament during 2019?



# Proportion of seats held by women in national parliaments, 2019 (%)



World Bank (2019): World Development Indicators (Data downloaded: December 2019).  
UK Data Service. <https://doi.org/10.5257/wb/wdi/2019Q4>



# International Debt Statistics



- Financial flows
- Contains the Bank's projections for debt repayments for next five years
- Annual data starting 1970s
- Replaces Government Development Finance



# Subnational Population Database



- Provinces, states, or regions - below the national level
- 2000 to 2016
- Subnational areas and the shares relative to total national population estimates
- Allows researchers, students and practitioners to investigate population and intra-country migration trends



# Belarus subnational data

## Subnational Population Database

 Customise ▾
  Export ▾
  My Queries ▾

→ Subject		Population, total						
→ Time		2010	2011	2012	2013	2014	2015	2016
→ Country or region								
■ Belarus		9 491 000	9 473 000	9 464 000	9 466 000	9 475 000	9 490 000	9 507 000
Belarus	Belarus, Brest	1 397 000	1 393 000	1 391 000	1 389 000	1 389 000	1 390 000	1 391 000
	Belarus, Gomel	1 437 000	1 432 000	1 429 000	1 427 000	1 426 000	1 426 000	1 426 000
	Belarus, Grodno	1 069 000	1 064 000	1 060 000	1 057 000	1 054 000	1 053 000	1 052 000
	Belarus, Minsk	1 416 000	1 408 000	1 403 000	1 402 000	1 400 000	1 399 000	1 398 000
	Belarus, Minsk City	1 854 000	1 875 000	1 893 000	1 911 000	1 934 000	1 959 000	1 984 000
	Belarus, Mogilev	1 093 000	1 084 000	1 078 000	1 075 000	1 070 000	1 067 000	1 064 000
	Belarus, Vitebsk	1 226 000	1 218 000	1 211 000	1 205 000	1 200 000	1 196 000	1 193 000

World Bank (2016): Subnational Population Database (Data downloaded: 8<sup>th</sup> September 2016). UK Data Service. DOI: <https://doi.org/10.5257/wb/spd/2016-09>

# IMF databanks

- International Financial Statistics
- Government Finance Statistics
- Balance of Payments Statistics
- Direction of Trade
- World Economic Outlook
- **Open access**



# IMF International Financial Statistics

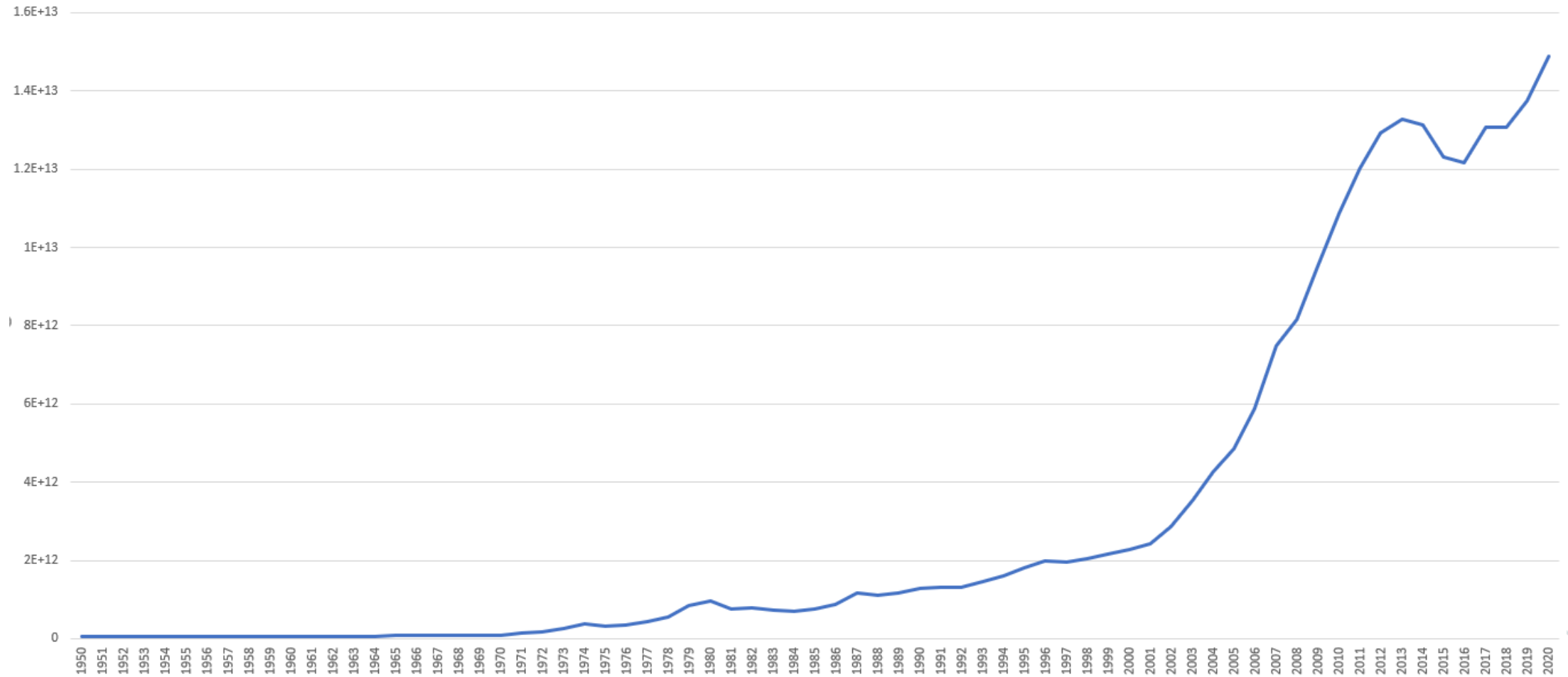


- Standard source for all aspects of international and domestic finance
- Monthly, Quarterly, and Annual data
- Includes over 200 countries
- Reports time series data on exchange rates, international liquidity, money and banking, interest rates, prices, production, national accounts...



# International Financial Statistics: example

World Total Reserves, US Dollars (Gold at Market Price) (Code: RAFA\_MV\_USD) 1950 - 2020



International Monetary Fund (2021): International Financial Statistics (Data updated February 2021). UK Data Service. <https://doi.org/10.5257/imf/ifs/2021-01>





# IMF Direction of Trade

- Exports and imports
- Bilateral data between countries
- Monthly, quarterly and annual data are presented
- 1980 onwards

Long and consistent time series

Stable data domains

Good geographic and temporal coverage

Up-to-date data



# Inside the database – IMF DOTS



Did you know ... how to change the layout in UKDS.Stat? [http://youtu.be/\\_ZnS0aGBQ3s](http://youtu.be/_ZnS0aGBQ3s)

Customise Export Draw Chart My Queries										
Reporter Country	Canada									
Flow	Exports									
Frequency	Monthly									
Time	Sep-2015	Oct-2015	Nov-2015	Dec-2015	Jan-2016	Feb-2016	Mar-2016	Apr-2016	May-2016	Jun-2016
Partner Country										
Afghanistan	92 796	1 710 650	1 715 340	456 744	1 438 888	735 848	588 548	2 474 888	884 033	2 355 480
Africa	283 892 000	290 872 000	197 557 000	273 110						142 043 000
Albania	1 737 370	919 775	860 851	1 165					547	1 039 300
Algeria	12 532 500	41 022 800	30 671 500	78 363					100	4 616 360
American Samoa	51 042.6	180 897	0	62 41					7.7	83 190.5
Angola	4 110 890	3 427 220	4 768 150	5 882					380	2 463 960
Antigua and Barbuda	474 862	465 230	575 533	407					140	393 004
Argentina	19 367 200	16 118 400	34 227 200	18 972					000	10 505 300
Armenia	435 343	450 946	368 839	386					322	470 762
Aruba <i>i</i>	849 592	615 910	678 410	446					350	881 470
Australia	106 338 000	190 055 000	112 464 000	126 969 000	91 120 900	90 815 900	136 366 000	160 290 000	116 389 000	122 495 000
Austria	60 406 600	12 801 200	7 371 610	10 361 600	8 319 060	10 672 900	12 677 900	13 969 500	11 124 600	9 675 120
Azerbaijan	600 699	616 438	667 397	448 489	1 441 110	1 602 450	1 535 590	1 216 830	463 184	331 110
Bahrain <i>i</i>	1 381 920	3 789 180	1 350 200	2 982 300	2 965 280	3 211 990	1 649 000	1 255 110	2 447 040	2 161 110

An idea of database size...





# IMF Balance of Payments Statistics

- Balance of payment components and international investment positions of countries worldwide
- 204 countries and country groups worldwide
- 1970s onwards
- Quarterly and annual data



# IMF Government Finance Statistics

- Data on government income
- Expenditure by sector
- All levels of government
- 174 countries worldwide
- Annual time series data, running 1990 onwards.



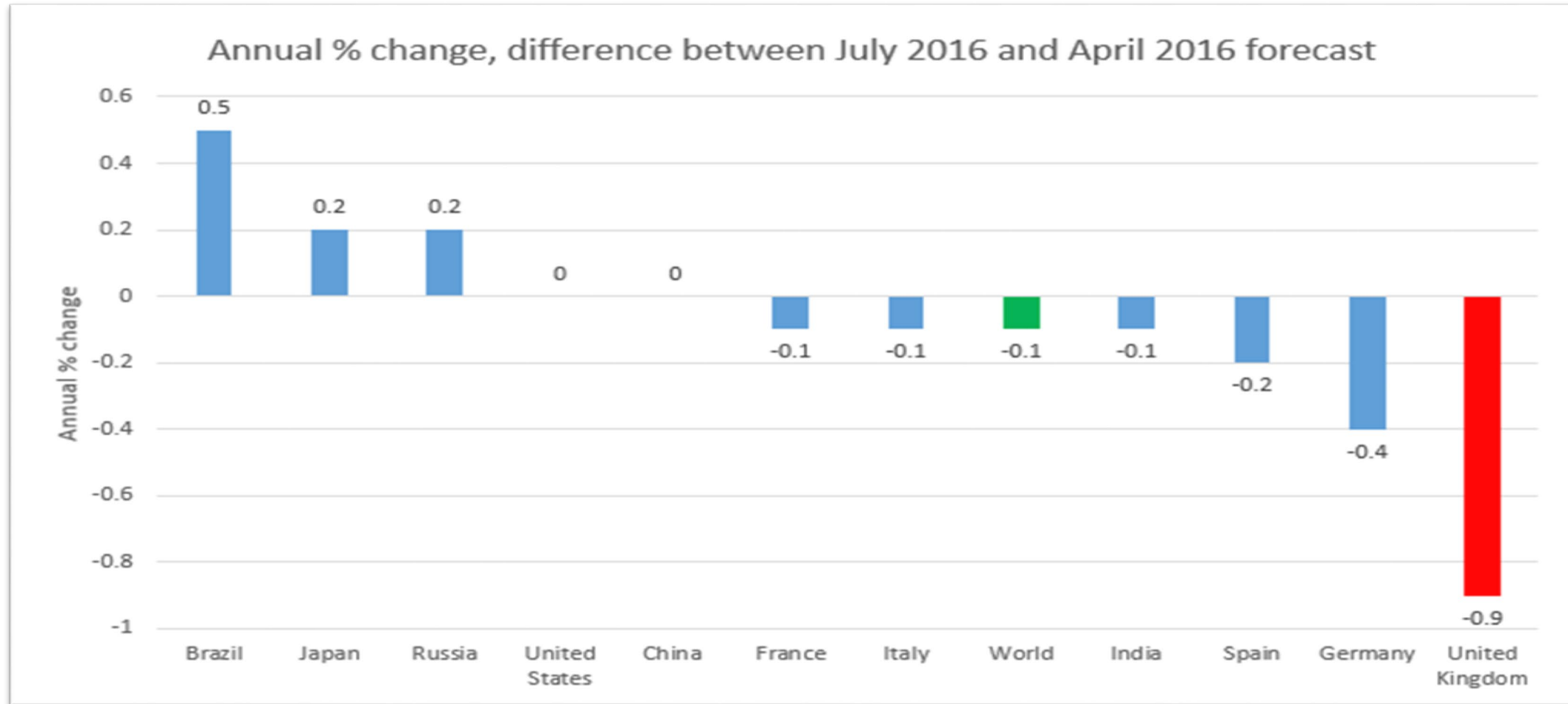


# World Economic Outlook

- World Economic Outlook report
- Data on national accounts, inflation, unemployment rates, balance of payments, fiscal indicators, and commodity prices
- Projections for most indicators run up to 2026



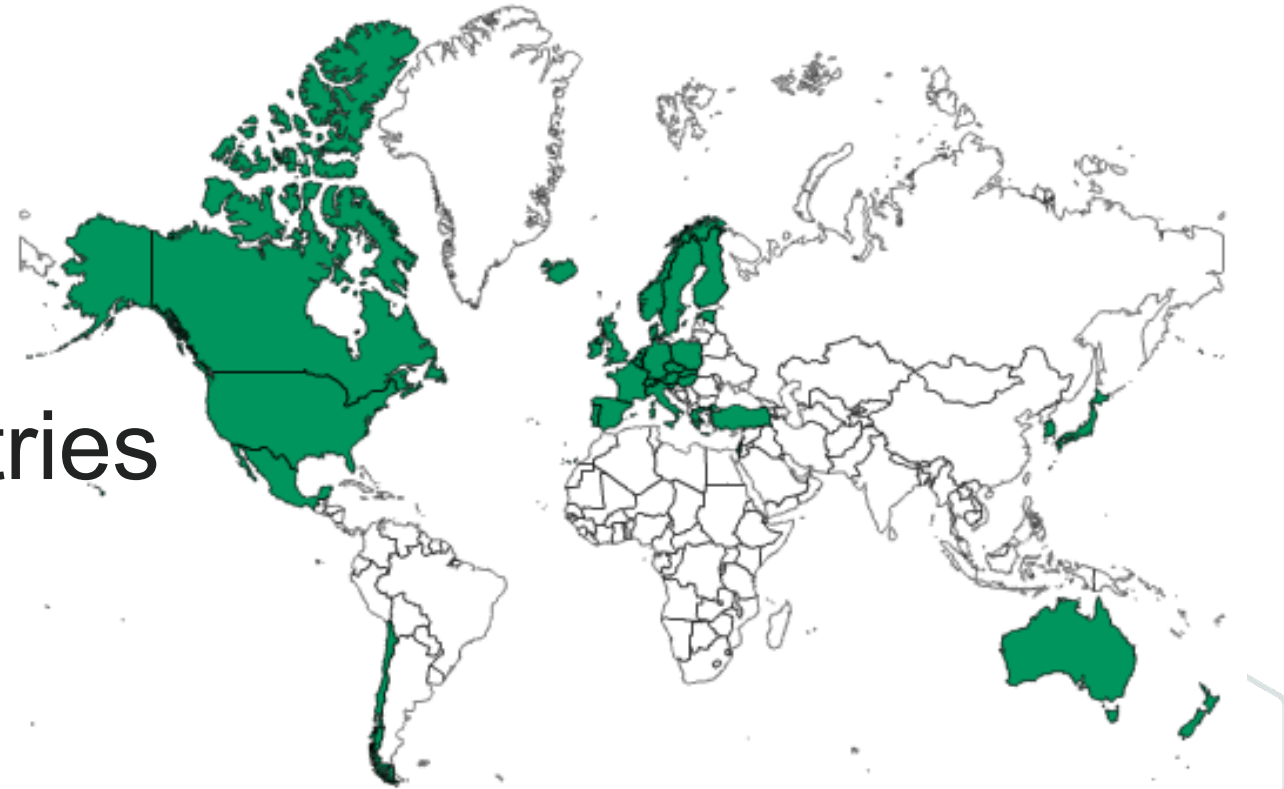
# IMF revision of GDP growth forecasts for 2017



Data source: IMF World Economic Outlook, April 2016, updated 19 July  
<https://doi.org/10.5257/imf/weo/2021-04>

# Organisation for Economic Cooperation and Development (OECD) Data

- Open data
- Comparable data
- Limited number of countries
- Wide range of data



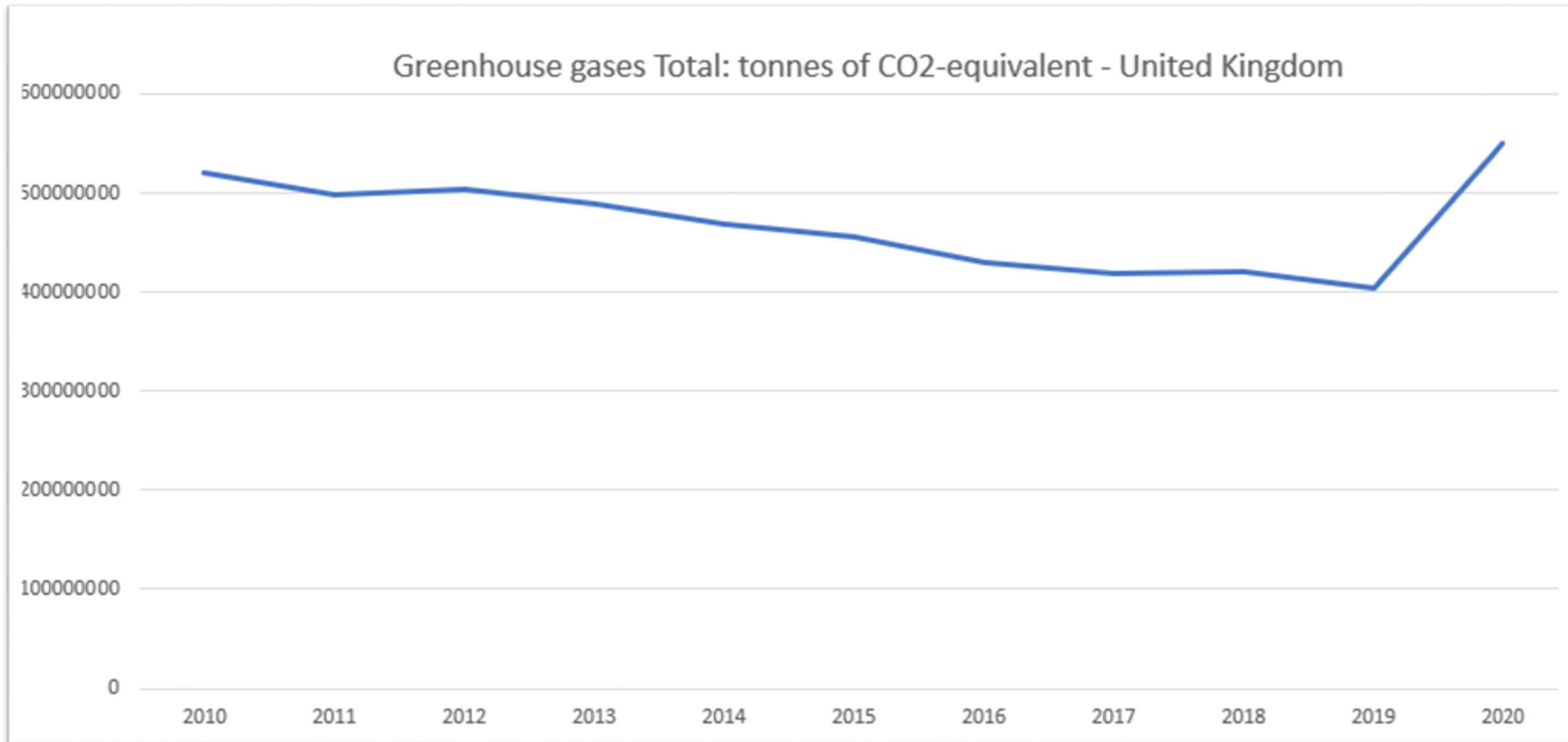
# OECD data

- Banking Statistics
- Economic Outlook
- Education and Training
- Employment and Labour Market Statistics
- Environment Statistics
- Health Statistics
- Institutional Investors Statistics
- Insurance Statistics
- International Development Statistics
- International Direct Investment Statistics
- International Trade in Services
- International Migration Statistics
- Main Economic Indicators
- Main Science and Technology Indicators
- Measuring Globalisation
- Monthly Statistics of International Trade
- National Accounts
- Patent Statistics
- Pensions Statistics
- Product Market Regulation
- Productivity Statistics
- Regional Statistics
- Social and Welfare Statistics
- Structural Analysis
- Tax Statistics
- Telecommunications and Internet Statistics





# Greenhouse Gas Emissions - UK



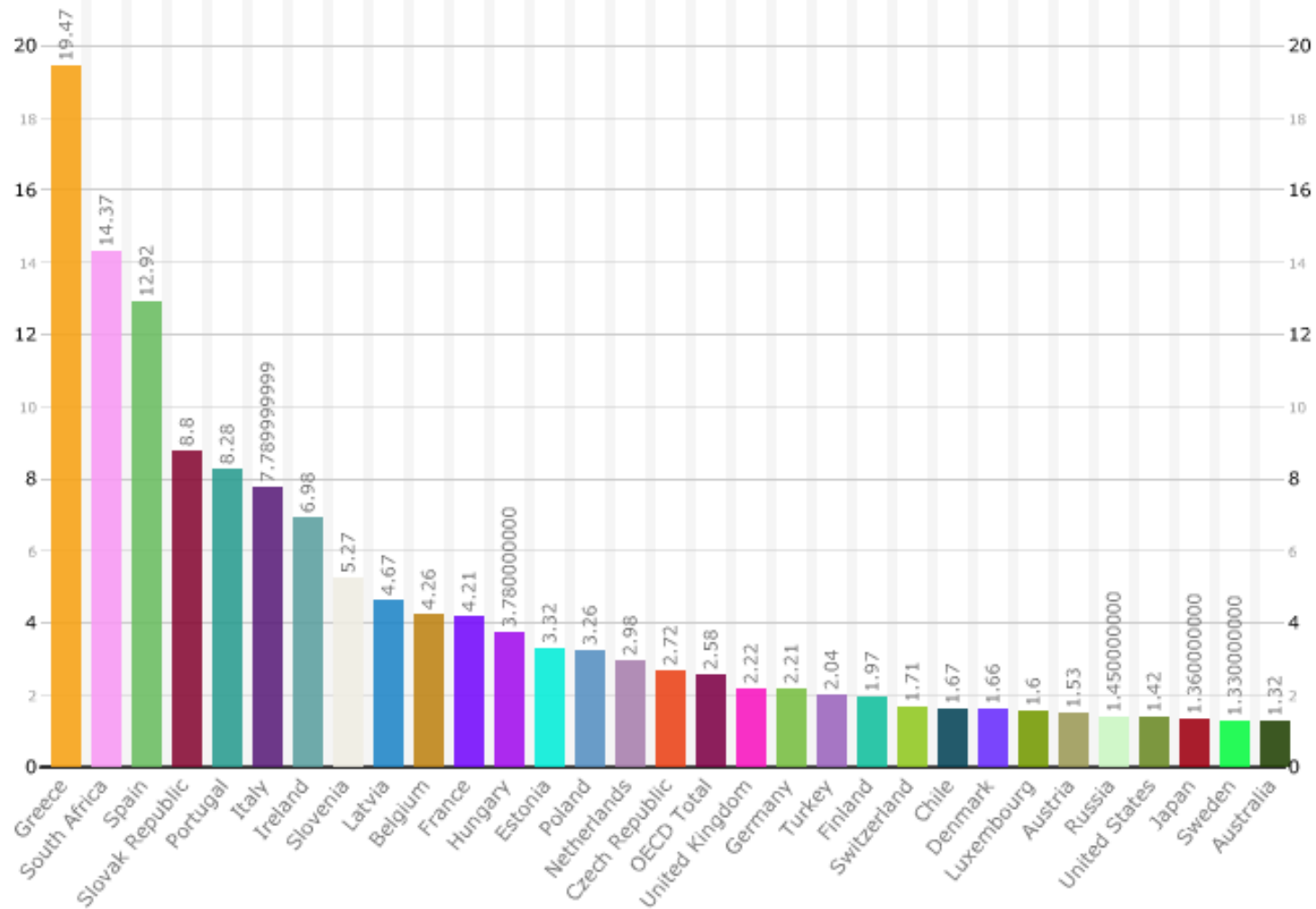
Organisation for Economic Cooperation and Development (2021 Environment Statistics (Updated: October 2021). UK Data Service. DOI: <http://dx.doi.org/10.5257/oecd/env/2021>



Which country had the highest long term unemployment rate in 2016?



# Long-term unemployment rate % (2016)



Organisation for Economic Development and Cooperation (2016): Better Life Index 2016, OECD Social and Welfare Statistics, UK Data Service. DOI: <http://dx.doi.org/10.5257/oecd/sws/2016>

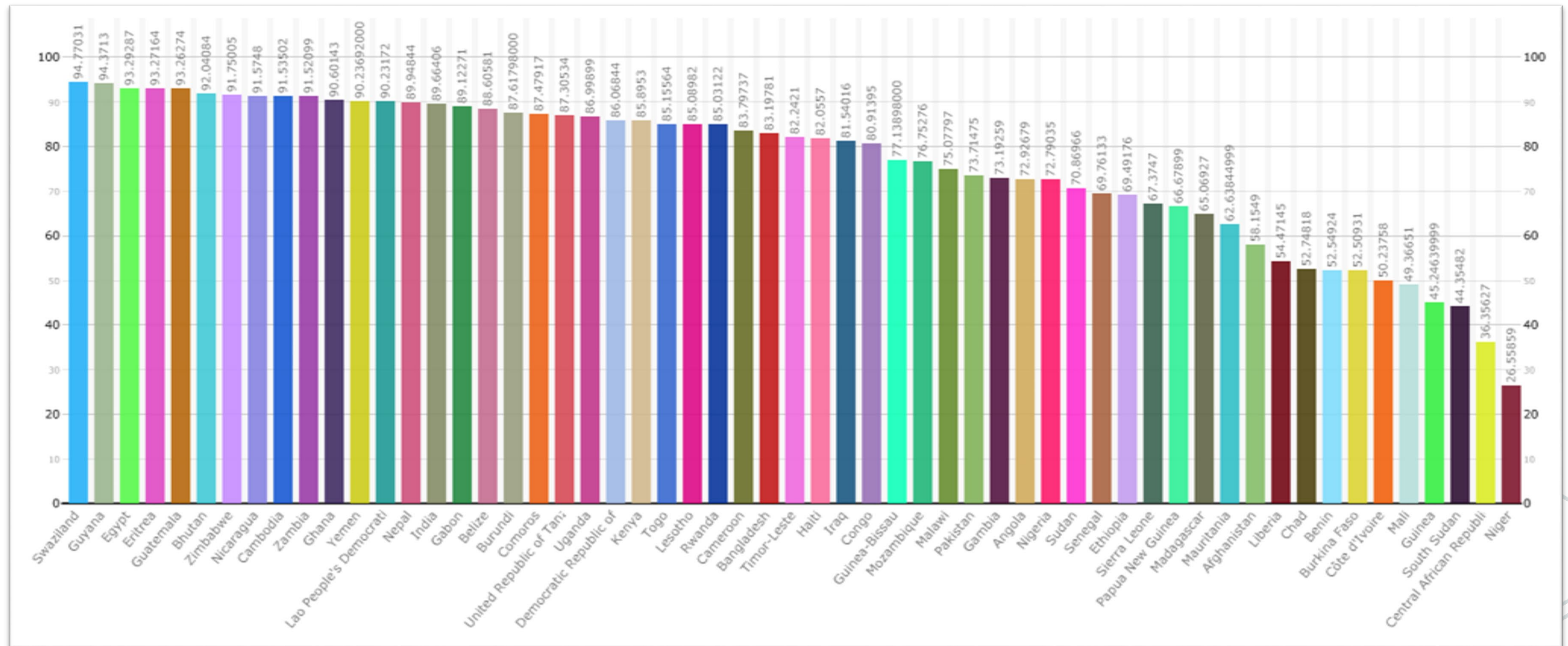


# UNESCO

- Education Statistics (1970 onwards)
  - Out of school, progression, attainment, literacy, student migration, teachers, financial resources and much more
- Innovation Statistics (2005 onwards)
  - R&D activity data
- Culture
  - Cultural employment (2009 onwards)
  - Feature film statistics (1995 onwards)
- Communication and information (1995 onwards)
- **Open data**



# Youth literacy rate, population 15-24 years, both sexes (%)



UNESCO (2016): Education Statistics (Edition: June 2016). UK Data Service.  
 DOI: <http://dx.doi.org/10.5257/unesco/edulit/2016-06>

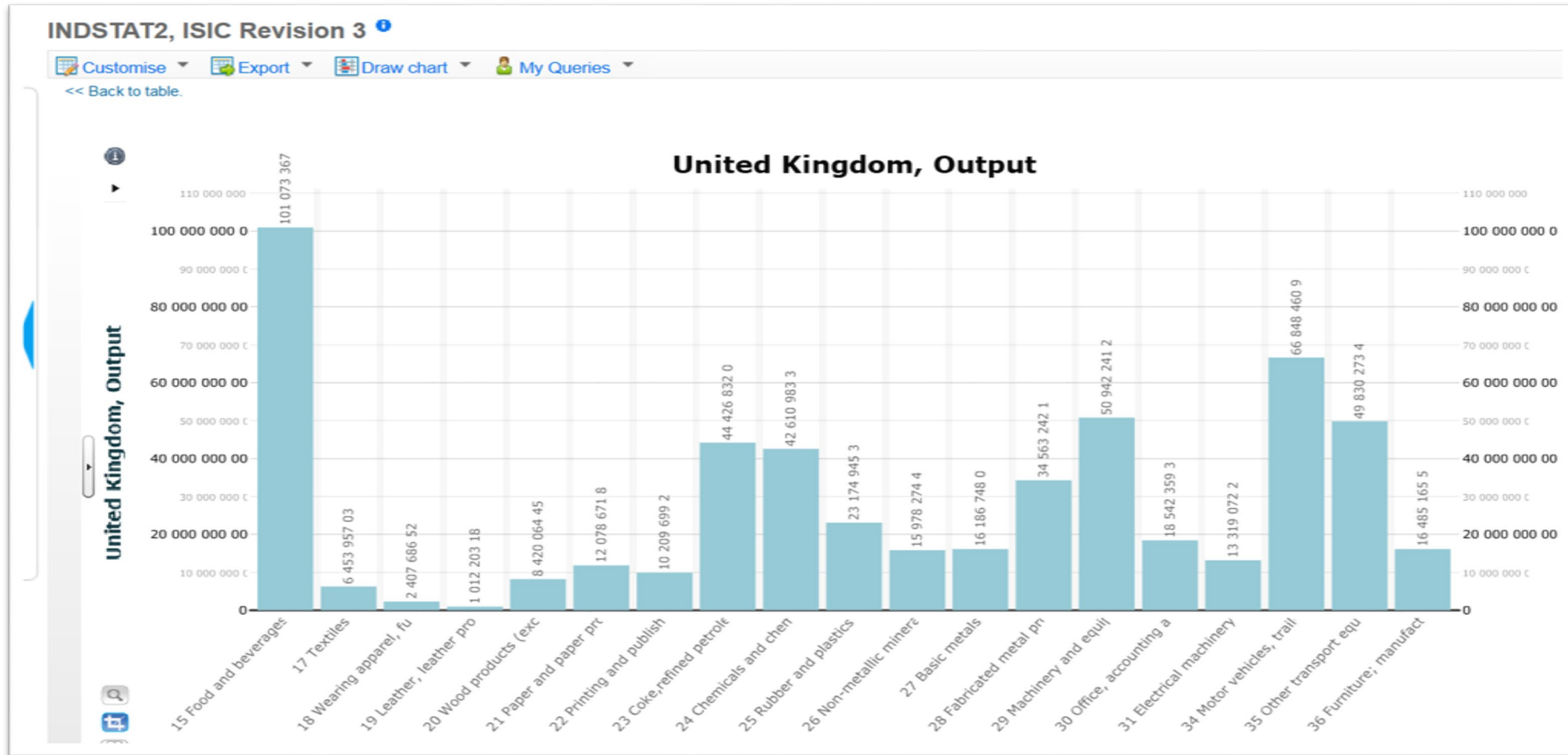
# United Nations Industrial Development Organization (UNIDO)



- **UNIDO Industrial Statistics Databases**  
Employment, wages and trade world-wide, broken down by manufacturing sector
  - INDSTAT2
  - INDSTAT4
- **UNIDO Industrial Demand Supply Balance Databases**  
Imports, exports and apparent consumption by manufacturing sector, from 1990 onwards
- **Annual data, updated each year**
- **Restricted to UK FE/HE**



# UNIDO data: Output UK 2017



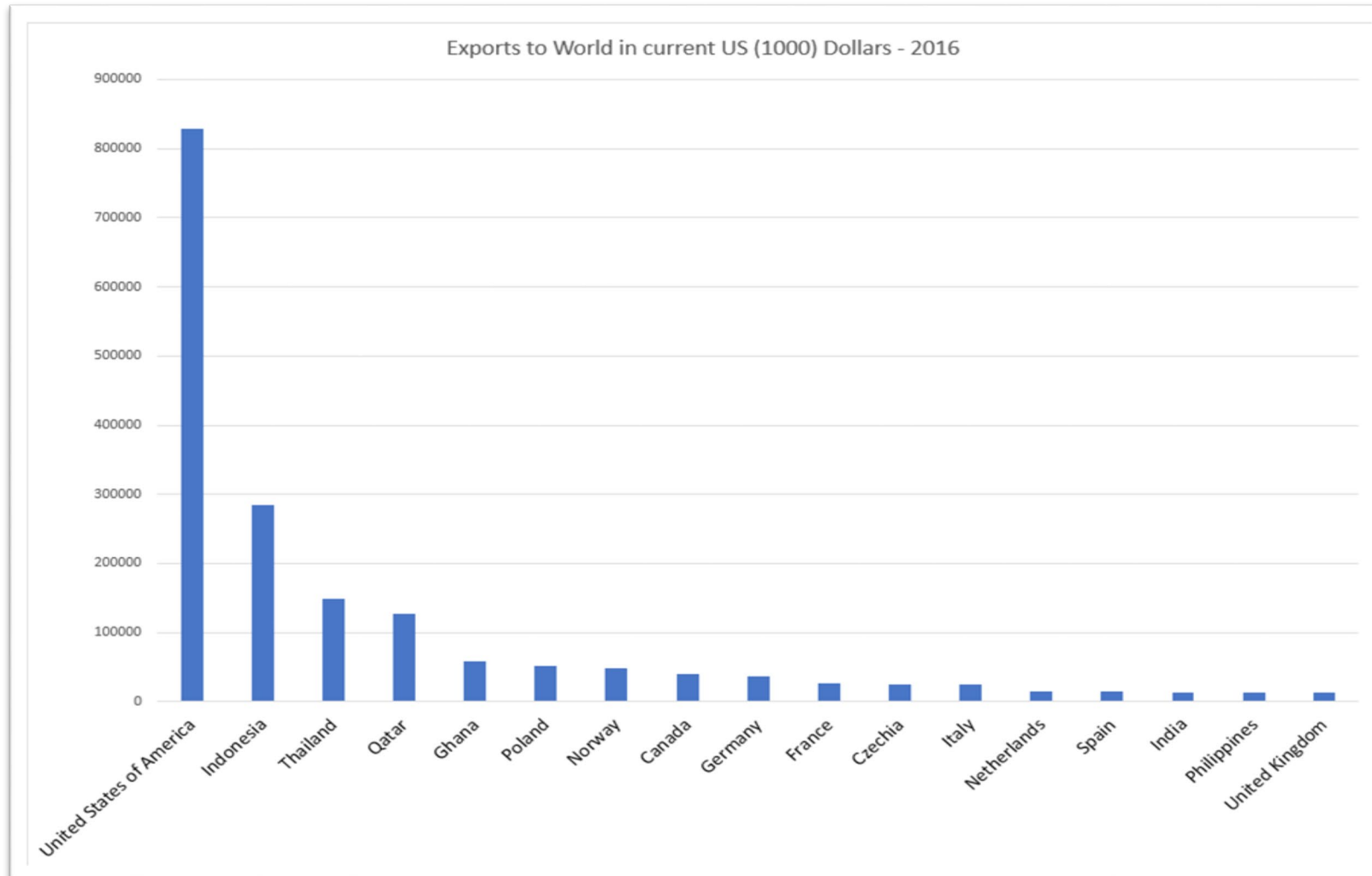
United Nations Industrial Development Organization: INDSTAT2 Rev. 3 Industrial Statistics Database (2019 Edition). UK Data Service. <https://doi.org/10.5257/unido/ind2/2019>

The US had the highest value of weapons and ammunition exports in 2016. But which country came second?





# Weapons and ammunition Exports (current US \$ (1000) in 2016



United Nations Industrial Development Organization: Industrial Demand Supply Balance Database (2019 Edition). UK Data Service. <https://doi.org/10.5257/unido/idsb/2019>

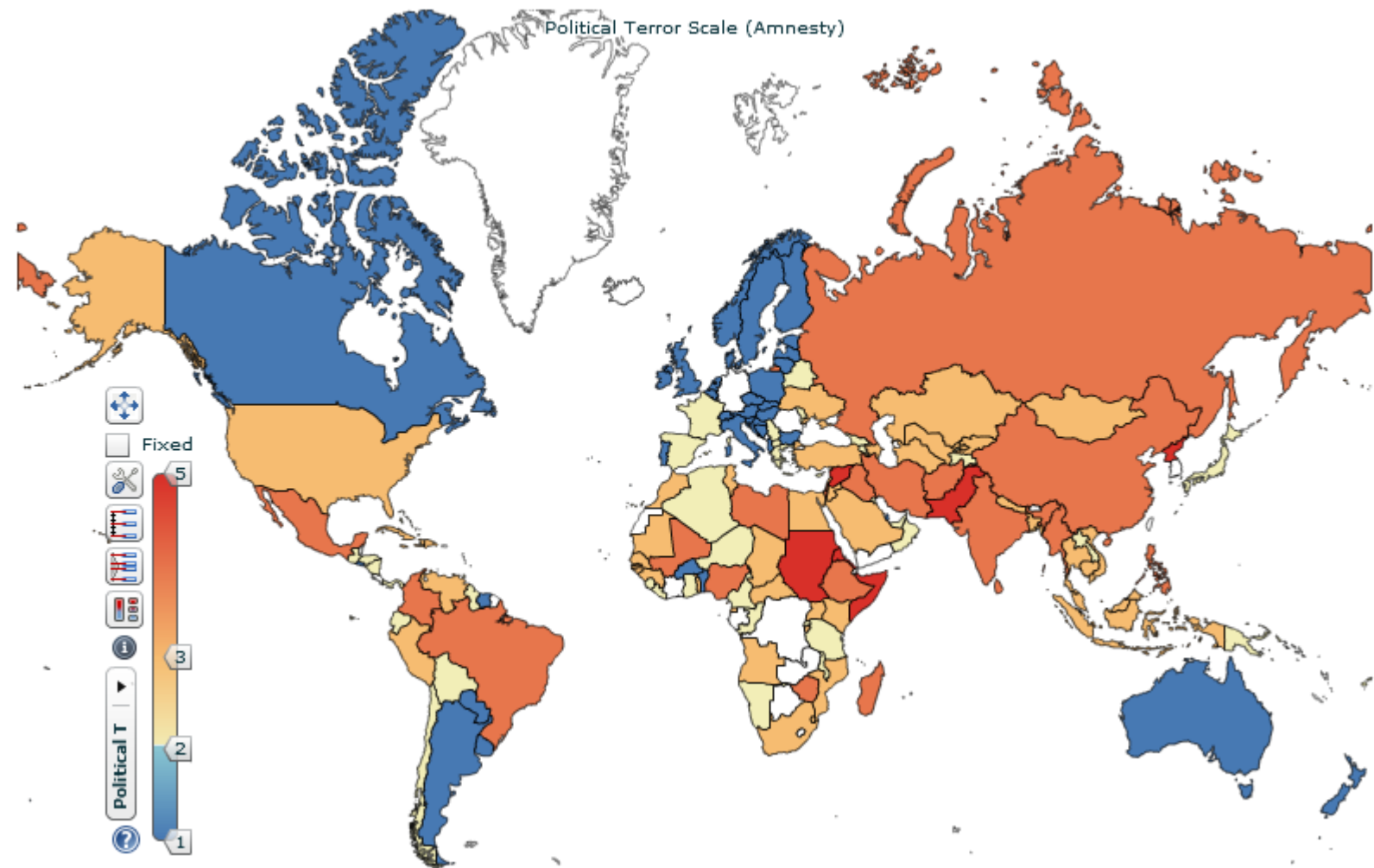


# Human Rights Atlas

- 1981 - 2012
- 240 indicators
- Combines data from World Bank, UN, academia, and non-governmental organisation
- ESRC funded project
- **Open data**



# Political Terror Scale (Amnesty, 2012)



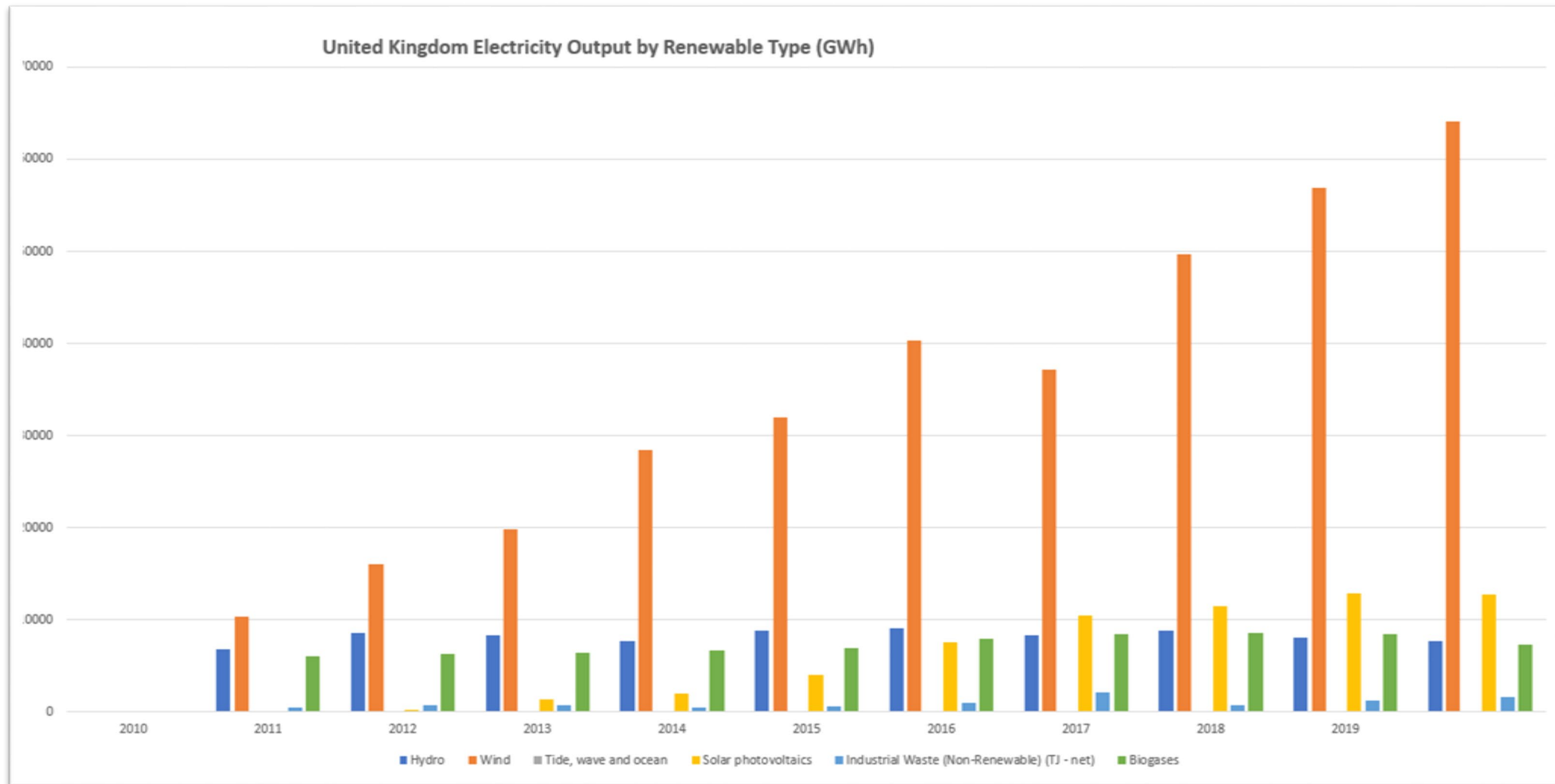
# International Energy Agency



- Greenhouse Gas Emissions from Energy
- Energy Prices and Taxes
- Energy Technology Research and Development Database
- World Energy Statistics and Balances
- Specialist databanks:
  - Electricity information
  - Coal Information
  - Natural Gas Information
  - Oil Information
  - Renewables Information
- **Restricted to UK FE/HE**

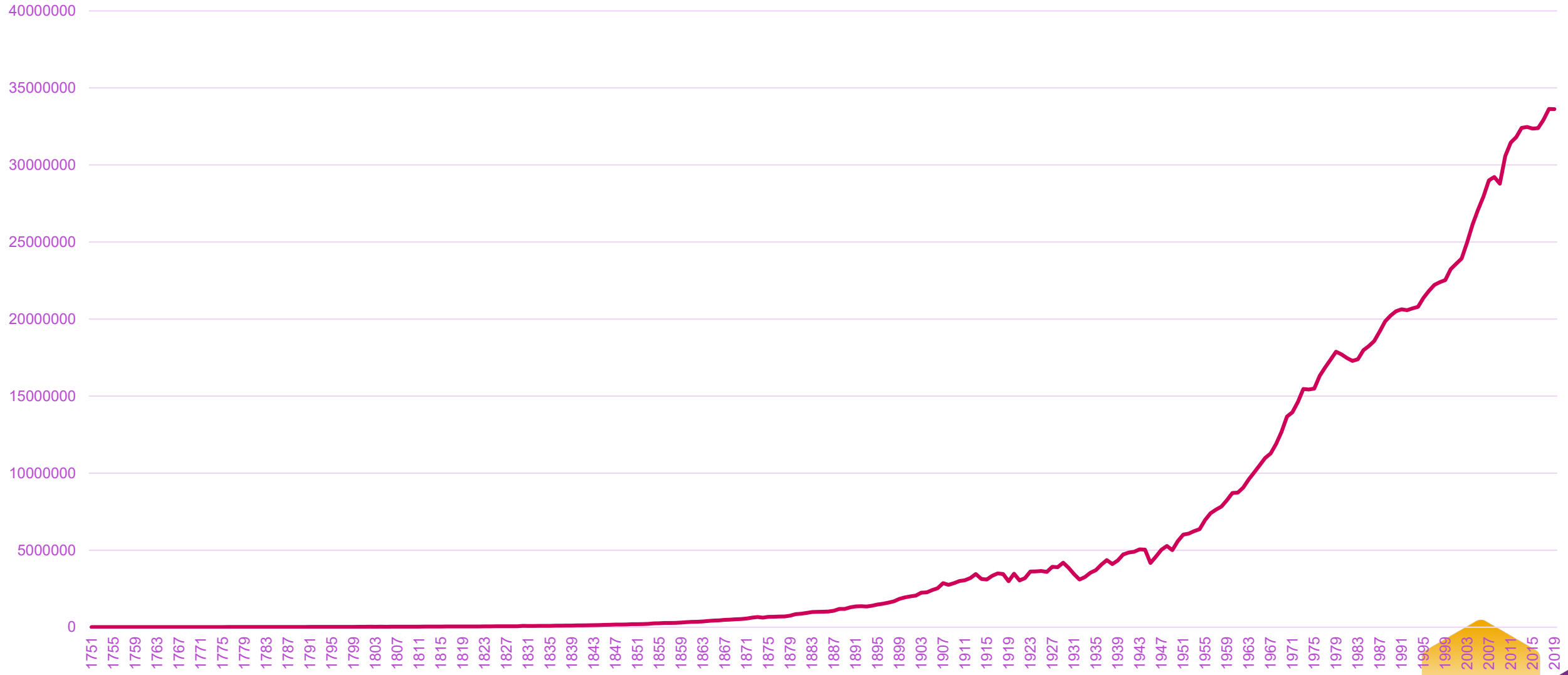


# IEA Renewables Information



International Energy Agency: Renewables Information : World Renewable and Waste Energy Statistics (2021 Edition), 1990-2019 (Data downloaded: 6 September 2021). UK Data Service, DOI: <http://dx.doi.org/10.5257/iea/ri/2021>

# World CO2 production 1751 - 2019



# Follow along demo

- [Go to https://ukdataservice.ac.uk](https://ukdataservice.ac.uk)
- How have UK Exports to its key EU partners fared in the last 10 years
- IMF Direction of Trade Statistics World CO2 production
- Goods, Value of Exports, Free on board
- Denmark, France, Germany, Ireland, Italy, Portugal, Spain, World

# Demo 2

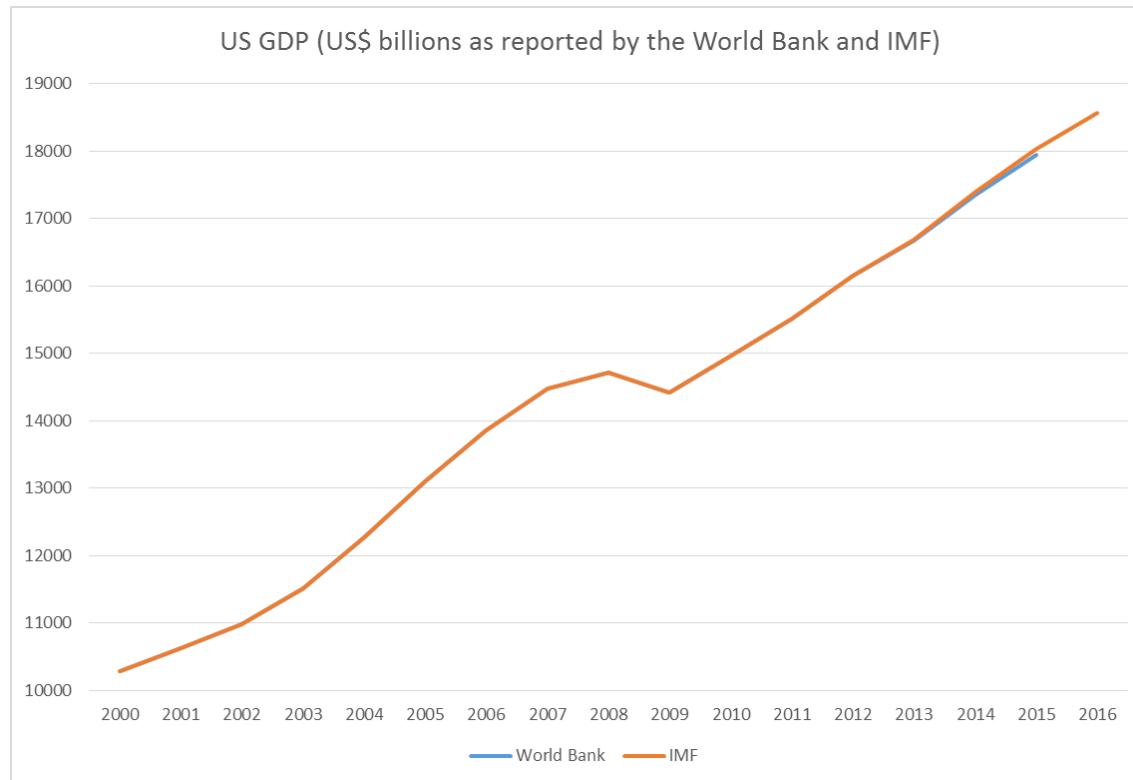
- Oil Product Spot Prices
- Gasoline Prices at the 3 world markets
- Energy Prices and Taxes
  - Spot Market and Crude Oil Import Costs
    - Oil Product Spot Prices



# Some tips on using the databanks

**Tip 1:** choose your data from the same databank or family of databanks

- comparability issues between data from different databanks, even for series with well-established standards
- theoretically identical series can have slightly different values in different databanks



Time	World Bank	IMF
2000	10284.8	10284.8
2001	10621.8	10621.8
2002	10977.5	10977.5
2003	11510.7	11510.7
2004	12274.9	12274.9
2005	13093.7	13093.7
2006	13855.9	13855.9
2007	14477.6	14477.6
2008	14718.6	14718.6
2009	14418.7	14418.7
2010	14964.4	14964.4
2011	15517.9	15517.9
2012	16155.3	16155.3
2013	16663.2	16691.5
2014	17348.1	17393.1
2015	17947.0	18036.7
2016		18567

# Tip 2: metadata is in the sidebar

## Direction of Trade Statistics

Customise Export Draw chart My Queries

Indicator		Goods, Value of Exports, Free on board (FOB), US Dollars							
Counterpart		World							
Country		World							
Frequency		Monthly							
Time		Jan-2019	Feb-2019	Mar-2019	Apr-2019	May-2019	Jun-2019	Jul-2019	Aug-2019
Country									
World		1 541 414 487 014	1 411 591 721 910	1 632 943 420 084	1 555 760 331 598	1 622 416 808 943	1 531 719 904 266	1 608 403 120 205	1 504 479 814
East Asia & Pacific	American Samoa	1 751 082	837 305	1 684 875	3 198 251	5 303 284	1 138 438	884 537	3 000 000
	Australia	21 105 057 012	20 605 283 941	22 094 210 870	22 245 471 836	23 602 136 431	24 329 069 283	24 349 872 229	23 002 000 000
	Brunei Darussalam	702 375 737	518 479 757	649 993 778	551 972 605	523 946 275	465 429 105	492 814 086	496 000 000
	Cambodia	1 181 663 400	1 019 839 527	1 141 680 231	1 055 947 513	964 144 365	1 073 986 200	1 492 023 069	1 682 000 000
	China, P.R.: Hong Kong	47 541 397 938	31 485 893 748	46 796 076 054	44 121 954 621	45 651 920 238	40 957 809 997	44 464 483 802	46 323 000 000
	China, P.R.: Macao	189 164 914	114 282 015	146 805 426	117 897 238	112 109 641	112 332 021	129 457 200	114 000 000
	China, P.R.: Mainland	217 566 641 920	135 200 630 590	198 655 790 080	193 481 260 260	213 845 417 430	212 825 630 760	221 553 907 770	214 786 000 000
	Fiji	92 800 578	47 059 739	77 792 254	61 207 949	64 692 719	54 018 706	65 800 649	81 000 000
	French Territories: French Polynesia	8 447 092	8 760 589	15 084 565	32 748 463	8 846 336	12 096 028	9 945 298	10 000 000
	French Territories: New Caledonia	167 757 670	125 231 706	86 767 462	175 955 954	115 913 861	115 344 093	114 386 364	108 000 000
	Guam	12 568 405	13 085 345	12 991 373	13 863 777	10 959 180	16 858 307	13 655 734	13 000 000
	Indonesia	13 927 877 535	12 555 897 249	14 121 915 793	13 113 621 045	14 825 046 678	11 792 729 755	15 454 177 112	14 281 000 000
	Japan	51 180 166 717	57 859 504 160	64 763 099 232	59 633 775 978	53 119 299 813	60 947 276 232	61 375 904 178	57 787 000 000

Data extracted on 04 Nov 2020 14:39 UTC (GMT) from UKDS.Stat

### Information

#### Direction of Trade Statistics

##### Database Specific

##### Abstract

The International Monetary Fund (IMF) Direction of Trade Statistics (DOTS) database presents the value of merchandise exports and imports disaggregated according to a country's primary trading partners. Area and world aggregates are included in the display of trade flows between major areas of the world. Reported data is supplemented by estimates whenever such data is not available or current. Imports are reported on a cost, insurance and freight (CIF) basis and exports are reported on a free on board (FOB) basis, with the exception of a few countries for which imports are also available FOB. Time-series data includes estimates derived from reports of partner countries for non-reporting and slow-reporting countries.

##### Source

##### Contact person/organisation

##### Get in touch

##### Direct source

Bibliographic citation:  
International Monetary Fund: Direction of Trade Statistics (March 2020 Edition). UK Data Service.  
<https://doi.org/10.5257/imf/dots/2020-03>

##### Source metadata

[Direction of Trade Statistics \(DOTS\), Quarterly \(PDF\)](#)  
[Direction of Trade Statistics \(DOTS\), Yearbook \(PDF\)](#)  
[IMF Working Paper 1816: New Estimates for DOTS \(New Methodology\) \(PDF\)](#)

# Tip 3: documentation is in the sidebar too

## World, Renewable and Waste Energy Statistics

Customise Export My Queries

→ Flow		Electricity output (GWh)						
→ Time		2010	2011	2012	2013	2014	2015	2016
→ Country	→ Product							
United Kingdom	Hydro	6 741	8 597	8 276	7 605	8 771	9 037	8 353
	Wind	10 286	15 963	19 847	28 397	31 959	40 275	37 155
	Tide, wave and ocean	2	1	4	5	2	2	0
	Solar photovoltaics	40	244	1 354	2 010	4 054	7 533	10 408
	Industrial Waste (Non-Renewable) (TJ - net)	423	736	681	496	588	968	2 065
	Biogases	6 059	6 331	6 443	6 655	6 897	7 948	8 484

Data extracted on 07 Dec 2021 17:25 UTC (GMT) from UKDS.Stat

- Source
  - Contact person/organisation
  - Direct source
  - Bibliographic citation:  
International Energy Agency: Renewables Information (2021 Edition). UK Data Service. DOI:  
<https://doi.org/10.5257/iea/ri/2021>
  - Source metadata
    - Renewables Information Database Documentation (PDF)**
  - Source Periodicity
    - Yearly
- Data Characteristics
  - Date last updated
    - 6th September 2021
  - Periodicity
    - Annual



# What we provide

- Data free at point of use
- Single portal and search across a wide range of international databanks from several intergovernmental organisations
- Consistent and comprehensive documentation
- Training, user support, knowledgeable helpdesk
- Web: [ukdataservice.ac.uk](http://ukdataservice.ac.uk)



# Data Skills modules

- Introduction to survey data
- Introduction to longitudinal data
- Introduction to aggregate data
- Exploring Crime surveys with R
- <https://ukdataservice.ac.uk/learning-hub/data-skills-modules/>





Thank you.

[david.rawnsley@jisc.ac.uk](mailto:david.rawnsley@jisc.ac.uk)

