An introduction to international macrodata from the UK Data Service

The webinar will begin at 2pm

- You now have a menu in the top right corner of your screen.
- The red button with a white arrow allows you to expand and contract the webinar menu, in which you can write questions/comments.
- We won’t have time to answer questions while we are presenting, but will answer them at the end
- You will be on mute throughout – we can’t hear you.
An introduction to international macrodata from the UK Data Service

Celia Russell
Richard Wiseman

23 April 2015
Welcome

Some introductions…

Celia Russell
UK Data Service
University of Manchester

Richard Wiseman
UK Data Service
University of Manchester
Can you hear us?
Can you hear us?

- If Not:
  - Check your volume, and that your speaker/headset is plugged in.
  - Your invitation also included a phone number, you can call that to listen in.
  - We are recording this webinar, so you can always listen to it later.
What we will cover today

• introduction
• international macrodata
• documentation and tips
• demo
• questions
  • can be typed in, but we will wait until the end to answer them
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
Our main data types

- Country level macro data from intergovernmental organisations
- UK government surveys
- International surveys
- Longitudinal datasets
- Qualitative data
- Census data
Welcome to the UK Data Service

Your resource for quality social research data

A unified point of access to data from ESDD, Census Programme, Secure Data Service and others

ukdatascience.ac.uk
### Key data

Browse our most popular datasets, by data type.

<table>
<thead>
<tr>
<th>UK surveys</th>
<th>Cross-national surveys</th>
<th>Longitudinal studies</th>
<th>Census data</th>
<th>International macrodata</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business microdata</td>
<td>Qualitative / mixed methods</td>
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</table>

**These UK surveys can be used to produce national estimates.**

They can all be used to describe a population at one point of time and most can be used to compare populations at more than one time point. Many are large surveys that are used to inform policy.

- [Discover data](#) from UK surveys
- [Discover case studies](#) relating to UK surveys

**Annual Population Survey**

The Annual Population Survey (APS) combines data from the Labour Force Survey (LFS) and national boosts. Datasets contain 12 months of data and responses from 155,000 households and 360,000 people. It thus improves intercensal monitoring of key variables for a range of policy purposes.
International macrodata

- time series data aggregated to country/region
- regularly updated
- international governmental organisations (IMF, OECD, IEA, World Bank)
- wide range of socio-economic topics
- available to staff and students from UK institutions of higher and further education (World Bank and IMF data are open access),
- access granted to parliamentary statisticians
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

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<th>Foreign direct investment, net (BoP, current US$)</th>
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Accessing the international macrodata

- World Bank and IMF data are open to all
- other data restricted to UK FE and HE
- access via Federated access (Shibboleth) authentication
- special conditions may also apply
- Data delivered over the web via UKDS.stat
- IMF eLibrary has own interface for browsing and downloading texts
- download formats include *.xls, *.csv
International macrodata

Download the series or documents you want from the appropriate online tool: UKDS.Stat or IMF eLibrary.
OECD Main Economic Indicators Databank, 1960-2013

Title: OECD Main Economic Indicators Databank, 1960-2013

Alternative title: OECD MEI

Depositor: Organisation for Economic Co-operation and Development

Principal investigator(s):

SUBJECT CATEGORIES

- International macro data - Major studies
- Economic conditions and Indicators - Economics

ABSTRACT

The Organisation for Economic Co-operation and Development (OECD) produces annual, quarterly and monthly data for around 3,800 main economic indicators (MEI). The variables cover national accounts, industrial production, employment, prices, business trends and trade for the member countries of the OECD and 5 non-member countries. The dataset also includes the OECD's leading indicators (key variables that signal changes in the business cycle).

The OECD defines each variable separately for each country. Nevertheless, the data are considered sufficiently similar to enable comparisons between countries, especially for relative values and rates of change.

These data were first provided by the UK Data Service in January 2003. The UK Data Service website includes further information on its OECD MEI holdings, including a dataset user guide and details of latest database updates.

Citation: The bibliographic citation for the Organisation for Economic Co-operation and Development (OECD): Main Economic Indicators is as follows: OECD Main Economic Indicators Databank, 1960-2013.
UKDS.Stat guides

A collection of guides for the UKDS.Stat interface.

**PDF Guides**

- UKDS.Stat user guide (PDF)
- Guide to finding IMF Government Finance Statistics (GFS) data (PDF)
- Guide to finding IMF International Financial Statistics (IFS) data (PDF)

Accessing, exploring and visualising data in UKDS.Stat

How to select multiple subjects in UKDS.Stat

FAQ - how to select multiple subjects in UKDS.Stat
World Bank Databases

- Collects data on all aspects of human development worldwide
- Annual data, designed for international comparability
- Open access

- Host 3 databases:
  - World Development Indicators
  - International Debt Statistics
  - Africa Development Indicators
World Development Indicators

- Covers 190 countries
- Annual data starting 1960
- Widely cited
- Our most popular database

The World Development Indicators provides a broad picture of poverty trends and social welfare, the use of environmental resources, the performance of the public sector, and the integration of the global economy.

**Around 1,400 indicators for each country**
Holidays abroad: number of departures

Number of international departures, 2012

- Hong Kong SAR China: 85,000
- China: 80,000
- United States: 60,000
- United Kingdom: 55,000
- Canada: 35,000
- Italy: 30,000
- France: 25,000
- South Asia: 20,000
- Ukraine: 15,000
- Saudi Arabia: 10,000

(Numbers in thousands)
Number of international arrivals, (thousands of people)
Which country had the highest number of international arrivals in 2012?
Number of international arrivals, (thousands of people)
International Debt Statistics

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

• Very comprehensive source of data on Africa
• Time series data starting 1965 on 1,200 indicators for over 50 sub-Saharan countries
• Data on household welfare, demography, health, education, the regulatory environment, national accounts, trade and debt, communications, transport, energy and the environment.
• Data on Africa can be patchy – this database fills in gaps with estimates for missing data
The five major databanks produced by the IMF contain data on national accounts, trade, the balance of payments and government spending for over 200 countries. Collectively, they provide a global picture of economic development and international trade over the last 50 years.

• Open access
IMF International Financial Statistics

- standard source for all aspects of international and domestic finance
- Monthly, Quarterly, and Annual data
- published and *updated monthly* since 1948
- includes over 200 countries
- reports time series data on exchange rates, international liquidity, money and banking, interest rates, prices, production, national accounts…
- 3 sections:
  - country tables
  - world tables
  - commodity prices
Example from IMF IFS: Greece

12E.SZK  NET CLAIMS ON EUROSYSTEM (Units: National Currency)
(Scale: Billions)


http://dx.doi.org/10.5257/imf/ifs/2013-10
IMF Direction of Trade

- Contains data on the value of exports and imports between each country and all its trading partners
- Around 250 countries and regional groups from the 1980’s onwards
- Monthly, quarterly and annual data are presented
- Data runs from 1980 to the present
- The database is updated monthly

Long and consistent time series
Stable data domains
Good geographic and temporal coverage
Up-to-date data
Inside the database – IMF Direction of Trade

An idea of database size...

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IMF Balance of Payments Statistics

- balance of payment components and international investment positions of countries worldwide
- 204 countries and country groups worldwide
- 1970s to the present
- Quarterly and annual data
- updated monthly
IMF Government Finance Statistics

- Data on government income (such as tax and bonds)
- Expenditure by sector (defence, education, health, etc)
- All levels of government (national, state, local)
- 174 countries worldwide
- Annual time series data, running 1990 onwards.
World Economic Outlook

- Each year the IMF produce the World Economic Outlook report, which presents the IMF staff's analysis and projections of economic developments at the global level.

- The WEO database contains the data that underpins that report.

- Data on national accounts, inflation, unemployment rates, balance of payments, fiscal indicators, and commodity prices.

- Projections for most indicators run up to 2019.
Public Debt around the World

$54 Trillion

Data Sources: Compiled from IMF, World Economic Outlook Database 04/2011
with additional data from IMF & EUROSTAT

Map created by Benjamin D. Hennig, Sasi Research Group, University of Sheffield
IMF eLibrary

- IMF eLibrary Text Collection - over 12,000 IMF documents from 1951 onwards
- Include books, analytical papers, country reports, working papers, periodicals
- Smaller datasets such as COFER (Currency Composition of Official Foreign Exchange Reserves), FSI (Financial Soundness Indicators), Primary Commodities, CPIS (Coordinated Portfolio Investment Survey), CDIS (Coordinated Direct Investment Survey)

- Access at imf-text.mimas.ac.uk
Global growth remains moderate and uneven, and a number of complex forces are shaping the outlook. These include medium- and long-term trends, global shocks, and many country- or region-specific factors. The April 2015 WEO examines the causes and implications of recent trends, including lower oil prices, which are providing a boost to growth globally and in many oil-importing countries but are weighing on activity in oil-exporting countries, and substantial changes in exchange rates for major currencies, reflecting variations in country growth rates and in exchange rate policies and the lower price of oil. Additionally, analytical chapters explore the growth rate of potential output across advanced and emerging market economies, assessing its recent track and likely future course; and the performance of private fixed investment in advanced economies, which has featured prominently in the public policy debate in recent years, focusing on the role of overall economic weakness in accounting for this performance.
Organisation for Economic Cooperation and Development (OECD) Data

• Comparable data
• Limited number of countries
• Wide range of data
OECD data we currently host:

- OECD Education Statistics
- OECD Globalisation
- OECD International Development
- OECD International Direct Investment Statistics
- OECD International Migration Statistics
- OECD International Trade by Commodities Statistics
- OECD Main Economic Indicators
- OECD Main Science and Technology Indicators
- OECD National Accounts
- OECD Services Statistics
- OECD Social Expenditure Database
- OECD STructural Analysis
- OECD Banking Statistics
More OECD data we currently host:

- Monthly Statistics of International Trade
- Health Statistics
- Insurance Statistics
- International Development Statistics
- Patent Statistics
- Pensions Statistics
- Productivity Statistics
- Regional Statistics
- Social and Welfare Statistics (includes Pensions at a Glance)
- Statistics on Measuring Globalisation
- Tax Statistics
- Telecommunications and Internet Statistics
- Employment and Labour Market Statistics
Breaking news

• OECD Institutional Investors Statistics now live!!
More OECD data coming soon:

- Agriculture Statistics
- Economic Outlook: Statistics and Projections
- Environment Statistics
- Product Market Regulation Statistics
- Structural and Demographic Business Statistics
Example from the OECD Main Science and Technology Indicators

GERD as a percentage of GDP
OECD International Migration Statistics

Immigrants by sex and age: Indian immigrants aged 15-24


DOI: http://dx.doi.org/10.5257/oecd/ims/2013-07
Weekly hours worked

Average weekly hours worked for full time employees, 2013

OECD Employment and Labour Market Statistics 2014 (Downloaded 5th-6th Jan 2015), UK Data Service. DOI: http://dx.doi.org/10.5257/oecd/labour/2015-01
Which country worked the most weekly hours during 2013?
Weekly hours worked

Average weekly hours worked for full time employees, 2013

Turkey 50
Mexico 48
Chile 47
Korea 47
South Africa 46
Israel 45
Greece 45
Iceland 44
New Zealand 43
Macedonia 43

OECD Employment and Labour Market Statistics 2014 (Downloaded 5th-6th Jan 2015), UK Data Service. DOI: http://dx.doi.org/10.5257/oecd/labour/2015-01
United Nations Industrial Development Organization (UNIDO)

- **UNIDO Industrial Statistics Databases**
  Employment, wages and trade world-wide, broken down by manufacturing sector
  - INDSTAT2, less detailed data from 1963 onwards
  - INDSTAT4, more detailed data available 1990 onwards

- **UNIDO Industrial Demand Supply Balance Databases**
  Imports, exports and apparent consumption by manufacturing sector, from 1990 onwards

- **Annual data, updated each year**
International Energy Agency

- CO$_2$ Emissions from Fuel Combustion
- Energy Prices and Taxes
- Energy Technology Research and Development Database – going live in UKDS.Stat today!
- World Energy Statistics and Balances
  - Energy Statistics of OECD Countries
  - Energy Balances of OECD Countries
  - Energy Statistics of Non-OECD Countries
  - Energy Balances of Non-OECD Countries
IEA specialist databanks

- Electricity information
- Coal Information
- Natural Gas Information
- Oil Information
- Renewables Information
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 different values in different databanks
Tip 2: some of the databanks have better cross country comparability than others.
- OECD databanks are specifically designed for country comparisons
- IMF International Financial Statistics is not.

Tip 3: Examine more info and footnotes
What we provide

• Up to date data
• 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
Demo

- https://stats.ukdataservice.ac.uk/
- http://imf-text.mimas.ac.uk/
Questions

ukdataservice.ac.uk/help/

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