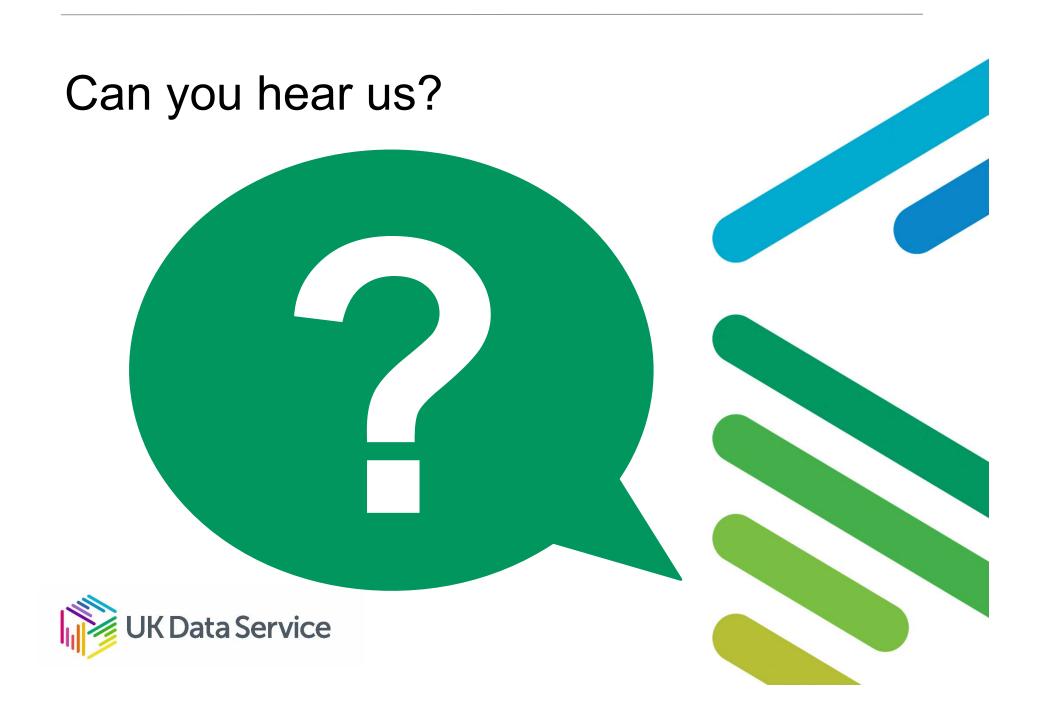
Key data: Business data

James Scott and Beate Lichtwardt UK Data Service University of Essex

Webinar, 15 November 2018







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





Introductions







Beate Lichtwardt Senior Training and Support Officer (Secure Lab)

Christine Woods Senior Support Officer (Secure Lab)

James Scott Senior User Support and Training Officer (Secure Lab)



What we will cover today

- 1. Business survey areas and data available
- 2. Examples of research
- 3. Structure of the datasets
- 4. How to apply to access these data
- 5. Access to international business data via the UK Data Service

- Questions at the end
- You will be on mute throughout we can't hear you



Business Microdata

- ONS conducts a range of business surveys
- Majority are collected under statute and are compulsory
- Some data for most business organisations in the UK
- Data are divided into 'reporting units', 'enterprises' and 'local units' (more later)
- Postcode-level, low-level geographies
- Business data can be linked together (more later)









Innovation, research and development

- E-Commerce Survey, 2001-2015
- IIA: Investment in Intangible Assets Survey, 2009-2010
- BERD: Business Expenditure on Research and Development, 1994-2016
- UKIS: UK Innovation Survey, 1994-2016





UKIS: UK Innovation Survey, 1994-2016

- Europe-wide Community Innovation Survey
- Main source of information on business innovation in the UK looking at:

'Major changes aimed at enhancing a firm's competitive position, performance, know-how, or capabilities' e.g. new or significantly improved goods, services or processes for making or providing them

- Based on UK businesses with more than 10 employees
- Approx. 16,000 enterprises



UK Innovation Survey: Some of the types of innovation covered:

- Computer software
- Computer hardware
- Internal R & D
- Training
- Changes or product or service design
- Changes to marketing methods
- All forms of design
- Launch advertising
- Market research
- Advanced Machinery
- Acquisition of external knowledge
- External R & D





UKIS based research topics

- Skilled Immigration and Strategically Important Skills in the UK Economy by George, A. et al, 2012
- Persistence and Change in UK Innovation 2002-2006 by Department for Innovation, Universities and Skills, 2008
- Is Money All? Financing Versus Knowledge and Demand Constraints to Innovation by Pellegrino, G. and Savona, M., 2013
- Universities as Sources of Information: Comparing the Role of 'Open Innovation' and Companies' Motivations by Volpi, M., 2014
- Private and External Benefits from Investment in Intangible Assets by Giovanetti, E. and Piga, C., 2014





Earnings and Skills

- New Earnings Survey (1986-2002 / 1975-2016)
- Occupational Pension Scheme Survey 2006-2015
- Monthly Wages and Salaries Survey 2000-2018
- National Employer Skills Survey 1999-2009
- Scottish Employer Skills Survey 2008 2010
- Annual Survey of Hours and Earnings 1997-2017





Annual Survey of Hours and Earnings 1997-2017 (ASHE)

- 1% sample of working individuals aged 16+ (approx. 140,000 185,000 per year) from NI records
- Can construct panel dataset
- Replaced New Earnings Survey which goes back to 1975
- Employer completes so data on wages and hours considered more accurate than some surveys (e.g. Labour Force Survey)





ASHE based research topics

- Driving up Wages: The Effects of Road Construction in Great Britain by Sanchis-Guarner, R., 2012
- Industry Knowledge Spillovers: Do Workers Gain from their Collective Experience? by Riley, R., 2010
- Incentive Pay: How Important is it and Does it Work? by Bryson, A. et al, 2012
- Productivity, Investment and Profits During the Great Recession: Evidence from UK Firms and Workers by Crawford,C. et al, 2013





Productivity and Employment Relations

- Annual Respondents Database 1973-2008 (ARD) and Annual Business Survey 2008-2016 (ABS)
- Business Structure Database 1997-2017 (BSD)
- Monthly Production Inquiry 1997-2009 (MPI)
- Workplace and Employment Relations Survey 1998-2011 (WERS)





Annual Respondents Database 1973-2008 (ARD) and Annual Business Survey 2008-2016 (ABS)

- Can see differences in productivity between firms with different organisational structures
- Employment, turnover, purchases, capital and other expenditure and income across sectors
- Over 100 key economic variables
- Data in two parts, employment record and financial information (ABS financial only)
- Various geographies down to postcode



Annual Respondents DatabaseX 1998-2014

- Deposited summer 2016
- Created by researchers at ONS Virtual Microdata Laboratory (VML) and University of the West of England
- Allows users of ARD to continue analysis even though the *Annual Business Inquiry* (ABI) which was used to create ARD ceased in 2008. ARDx contains harmonised variables from 1998 to 2014.
- More information on our website





ARD based research topics

- How do Firms' Outward FDI Strategies Relate to their Activity at Home? Empirical Evidence for the UK by Simpson, H., 2010
- The Impact of the National Minimum Wage on Firm Behaviour During Recession by Riley, R. and Rosazza Bondibene, C., 2013
- Regional Selective Assistance (RSA) in Scotland: Does it Make a Difference to Plant Survival? By Moffat, J., 2013
- *Migration and Productivity: Employers' Practices, Public Attitudes and Statistical Evidence* by Rolfe, H. et al, 2013





Business Structure Database 1997-2017 (BSD)

- Employment turnover, SIC, legal status, foreign ownership, birth and death codes
- Data divided into 'enterprises' and 'local units' (more on this later)
- Up to 4 million 'enterprises' and up to 5.5 million 'local units'
- Government Office Regions (GORs) and postcodes





Monthly Production Inquiry 1997-2009 (MPI)

- Turnover, export turnover, employees etc.
- Provides 75.5% of the current price turnover data used in the compilation of Index of Production (IoP)
- Provides over 90% of the data used to estimate the number of employees in the production industries





Employment relations

Workplace and Employment Relations Survey, 1998-2011 (WERS)

- Cross-Section Survey of Managers
- Cross-Section Survey of Employee Representatives
- Cross-Section Survey of Employees





WERS based research topics

- Two perspectives on multiskilling and product-market volatility, by DeVaro J, 2011
- Disability and earnings: are employer characteristics important?
 , by Jones M and Latreille P, 2010
- Workplace Performance, Worker Commitment and Loyalty, by Brown S, McHardy J, McNabb R and Taylor K, 2011
- Understanding the Gender Pay Gap: What's Competition Got to Do with It?, by Manning A and Saidi F, 2010





International Trade and Foreign Direct Investment

- Annual Inquiry into Foreign Direct Investment 1996-2016 (AFDI)
- International Trade in Services 1996-2016 (ITIS)





Annual Inquiry into Foreign Direct Investment (AFDI)

- Info on UK companies and their foreign affiliates
- Inward FDI relates to foreign investment into the UK
- Outward FDI relates to investment by UK-based companies overseas
- Approximately 8,000 21,000 enterprises for outward FDI, and 2,000 35,000 for inward FDI





Environment

- Quarterly Fuels Inquiry, 1998-2015
- DECC Low Emissions R&D Survey, 2008





DECC Low Emissions R&D Survey, 2008

- Main focus is on businesses R&D aimed at reducing greenhouse gas emissions
- Expenditure on low emissions R&D, trialling and deploying the material, product, or process in a working environment on a pre-commercial basis
- Support from government incentives
- Lower energy consumption and renewable energy





Structure of the datasets

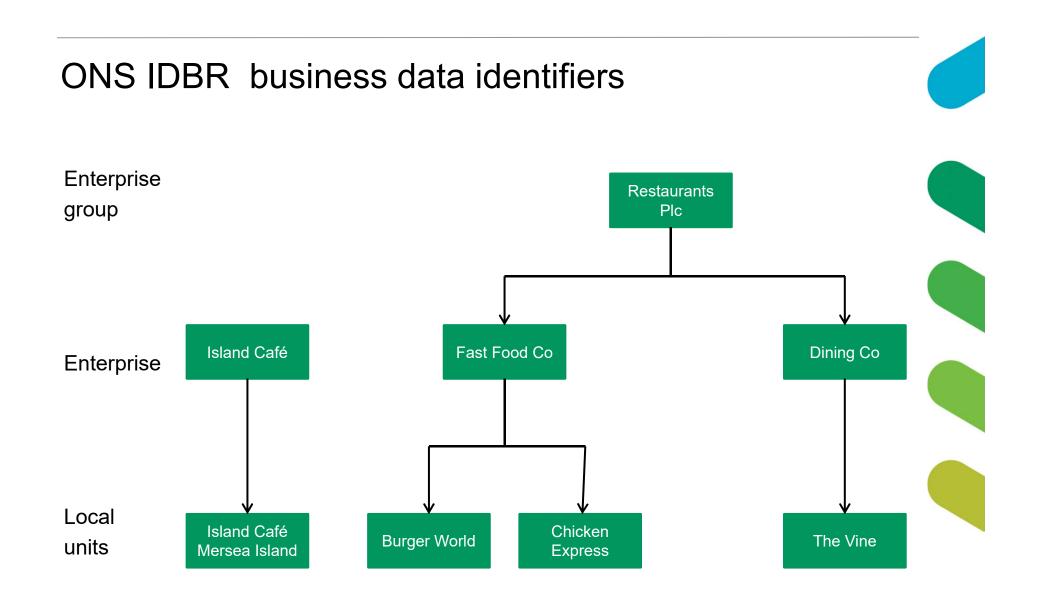




How are the datasets structured? Enterprise Group Enterprise Reporting Unit Local Unit



Adapted from ons.gov.uk



Fake company data



Examples of Data Linked

Some of the most common linkages:

- Annual Survey of Hours and Earnings (ASHE) to Workplace Employment Relations Survey (WERS)
- Business Structure Database to UK Innovation Survey
- Annual Respondents Database to WERS
- ASHE to Employer Skills Survey

Permission from data owner required to link datasets



How to apply to access these data?



A Four Step Application Process

- 1. Find the dataset you wish to use
- 2. Apply for use through UKDS
- 3. Complete an Accredited Researcher application form
- 4. Attend a training course





Search 1: Find Controlled Business Data

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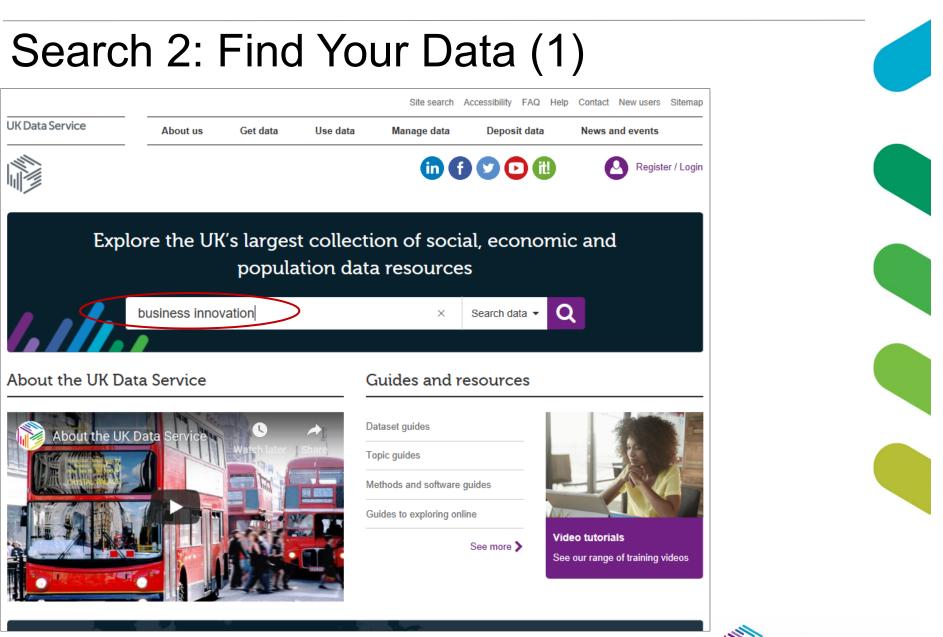
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Data Catalogue of Jusiness microdata
 <u>Gase studies</u> relating to business microdata

Search 1: Find Controlled Business Data

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opic:		SN 999007 Housing management data for Poplar HARCA, 2017: Secure Access, BLG
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Access:		SN 8275 1961 Census Microdata for Great Britain: 9% Sample: Secure Access K Extending and Enhancing Historic Census Microdata Project (EEHCM) Office for National Statistics
ountry:		SN 8302 <u>Millennium Cohort Study: NHS Patient Episode Database for Wales, Linked Administrative</u> Datasets: ICD-10 Codes in Continuous Spells, 2001-2012: Secure Access





https://www.ukdataservice.ac.uk/



Search 2: Find Your Data (2)

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opic:	SN 7814 Small Business Survey, 2014
	Department for Business, Innovation and Skills
ata Type:	SN 6699 UK Innovation Survey, 1994-2016: Secure Access
Access:	Office for National Statistics Northern Ireland. Department of Enterprise, Trade and Investment Department for Business, Innovation and Skills
country:	SN 6856 <u>Small Business Survey, 2010-2012: Secure Access</u> Department for Business, Innovation and Skills



Search 2: Find Your Data (3)

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http://doi.org/10.5255/UKDA-SN- 6699-6	Details			
Copy study DOI	Title:	UK Innovation Survey, 1994-2016: Secure Access		
	Alternative title:	Community Innovation Survey; UKIS; CIS		
	Study number (SN):	6699		
	Persistent identifier:	10.5255/UKDA-SN-6699-6		
	Principal investigator (s):	Office for National Statistics Northern Ireland. Department of Enterprise, Trade and Investment Department for Business, Innovation and Skills		
	Sponsors and contrib	outors 🗸		



Search 2: Find Your Data (4)

6699-6

Principal investigator (s):	Office for National Statistics Northern Ireland. Department of Enterprise, Trade and Investment Department for Business, Innovation and Skills	
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Trade, industry and mark	ets	
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Department for Busine	ess, Innovation and Skills, Northern Ireland. Department of Enterprise, Tra	ade

and Investment, Office for National Statistics. (2018). UK Innovation Survey, 1994-2016: Secure Access. [data collection]. 6th Edition. UK Data Service. SN: 6699, http://doi.org/10.5255/UKDA-SN-



Search 2: Find Your Data (5)

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	UK Data Archive Data Dictionaries	6699allfiles_ukda_data_dictionary.pdf	0.88
	UK Data Archive Information for Study 6699	read6699.htm	0.01
	UKIS Questionnaires, 1994-2008	6699questionnaires_1994_2008.pdf	0.97
	UKIS Related Articles, 2002-2006	6699research_articles.pdf	1.78
	UKIS User Guide, 1st edition	6699userguide_1st_edition.pdf	0.6
	UKIS User Guide, 2011	6699userguide_2011.pdf	0.6





A Four Step Application Process

- 1. Find the dataset you wish to use
- 2. Apply for use through UKDS
- 3. Complete an Accredited Researcher application form
- 4. Attend a training course





Step 2: Apply

Studies

Studies	UK Innovation Survey, 1994-2016: Secure Access
Series	
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http://doi.org/10.5255/UKDA-SN- 6699-6	Access
Copy study DOI	The Data Collection is to be made available to Registered or Authorised Users.
	Commercial Use of data is not permitted.
	All requests are subject to a set of Secure Access forms being completed by the User and are subject to the approval of the data owner or his/her nominee.
	Requests from users not resident in the UK are subject to agreement by the User to the following additional condition of use: "I agree that although I am based outside the UK, I am working on a project that has a UK based sponsor, I will be able to access the data within a UK based secure environment, and I will be able to provide contact details for this sponsor on any project application.
	Access to data is subject to training.
	Access is limited to applicants resident in the UK.
	The Data Collection is to be accessed remotely through the UK Data Service's secure virtual private network via the researcher's own institutional desktop PC.
(You must be a <u>registered user</u> and <u>logged in</u> to access this study.
	UK Data Service

Step 2: Apply (logged in)

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Series

http://doi.org/10.5255/UKDA-SN-6699-6

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UK Innovation Survey, 1994-2016: Secure Access

Details Documentation

Resources

Access

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Access

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The Data Collection is to be accessed remotely through the UK Data Service's secure virtual private network via the researcher's own institutional desktop PC.

a Service

Add these data to your account. (Secure Lab remote access)

Step 3: Become an Accredited Researcher

- Complete the Accredited Researcher form
- UKDS sends your form to the data owner for approval
- Project colleagues should do this too
- REMEMBER: Include as much detail as possible...
 - Professional background (papers, conference presentations)
 - Experience of using micro-data
 - Project description
 - Why you need these data
 - Data linkage



Step 4: Training

- After approval, we'll offer you a range of dates to attend a training course
- Upon successful completion, we'll issue you with Secure Lab account credentials
- Three modules:



• Not a 'box ticking' exercise - understanding is crucial.



Access to international business data via the UK Data Service





Access to international controlled microdata - IAB

- Since 2015 Reciprocal Provision of Safe Room Remote Desktop Access
- UK Data Service IAB (Institute for Employment Research), Germany



 Datasets available via UK Data Service Safe Room: IAB RDC on-site use files, <u>https://fdz.iab.de/en/FDZ_Overview_of_Data.aspx</u>



Access to international controlled microdata - IAB

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uures of the FDZ	Establishment History Panel (BHP)	Sample of Integrated Labour Market	Linked Employer-Employee Data of the IAB (LIAB) Examination unit - Individuals	
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Institut für Arbeitsmarkt und Berufsforschung der Bundesagentur für Arbeit	Establishment History Panel (BHP) Examination unit - Establishments Source - Administrative	Sample of Integrated Labour Market Biographies (SIAB) Examination unit - Individuals Source - Administrative	Linked Employer-Employee Data of the IAB (LIAB) Examination unit - Individuals - Establishments Source - Administrative (Individuals) - Survey (Establishments)	

https://fdz.iab.de/en/FDZ_Overview_of_Data.aspx



IAB/FDZ data

Central FDZ data products

The following data products are updated regularly:

Establishment Data	Individual and Household Data	Integrated Establishment and Individual Data
Establishment History Panel (BHP)	Sample of Integrated Labour Market Biographies (SIAB)	Linked Employer-Employee Data of the IAB (LIAB)
IAB Establishment Panel	Panel Study Labour Market and Social Security (PASS)	
German Job Vacancy Survey of the IAB	IAB-SOEP Migration Sample (IAB-SOEP-MIG)	

Establishment Data

German Management and Organizational Practices (GMOP) Survey

Individual and Household Data

- Working and Learning in a Changing World (ALWA), ALWA Literacy und Numeracy Data (ALWA-LiNu) and ALWA survey data linked to administrative data of the IAB (ALWA-ADIAB)
- Employee survey 'Bonus payments, wages increases, and fairness' (BLoG)
- Biographical Data of Social Insurance Agencies in Germany (BASiD)
- IAB-BAMF-SOEP Survey of Refugees
- IZA/IAB Administrative Evaluation Dataset (AED) and IZA/IAB Linked Evaluation Dataset 1993-2010 (LED)
- lidA Survey Data. German cohort study on work, age and health
- National Educational Panel Study (NEPS), Starting Cohort 6 (SC6) survey data linked to administrative data of the IAB (NEPS-SC6-ADIAB)
- S-MGA The Study on Mental Health at Work

Integrated Establishment and Individual Data

- Linked Personnel Panel (LPP) and LPP survey data linked to administrative data of the IAB (LPP-ADIAB)
- Panel "WeLL" Employee Survey for the Project "Further Training as a Part of Lifelong Learning" and WeLL survey data linked to administrative data of the IAB (WeLL-ADIAB)



https://fdz.iab.de/en/FDZ Overview of Data.aspx

Access to international controlled microdata - CASD

- In cooperation with the French Secure Access Data Centre (CASD - Data of the Centre d'Accès Sécurisé aux Données), the UK Data Service has set up a secure data access point within the UK Data Service Safe Room at the University of Essex to facilitate on-site direct remote access to the CASD data from UK.
- Data: <u>https://www.casd.eu/en/available-data-on-casd/</u>
- To apply for data access, contact: <u>service@casd.eu</u>



Chata Service

Access to international controlled microdata - CASD

Show 10 \checkmark entries							Searc	
Themes	Families	♦ Series ♦	• * * •		Datasets	Producer Filter	Authorisation	
Characteristics of enterprises	SUSE_ESANE	File approaching the results of the Elaboration of annual statistics of companies Le fichier approché des résultats d'Esane contient les informations comptables issues des liasses fiscales mises en cohérence avec les informations provenant de l'enquête ESA.	167	38	2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016	Insee & Ministry of Finance (DGFiP)	<u>Statistical</u> <u>Confidentiality</u> <u>Committee</u>	
Characteristics of enterprises	SUSE_ESANE	Unified Corporate Statistics System FICUS aims to compile a complete and coherent set of individual data and statistics on enterprises through the exploitation of a fiscal source, which constitutes the "core" of the system and brings together the company profit declarations to the then Tax General Directorate (DGI) now DGFIP.	154	39	1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005,	Insee & Ministry of Finance (DGFiP)	<u>Statistical</u> <u>Confidentiality</u> <u>Committee</u>	
Employment – Labour force	DADS	Annual declaration of social data - job position data These files describe the workstation, employee individual caracteristics and more information from the National directory of businesses and establishments.	146	66	1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004,	Insee	<u>Statistical</u> <u>Confidentiality</u> <u>Committee</u>	
Characteristics of enterprises	LIFI	Financial Links between Enterprises Survey This survey aims to identify and outline the groups of enterprises operating in France. European regulations on national accounts require account identification of French enterprises under foreign control, most often by foreign groups. Capital holding links between enterprises are recorded on 31 December in order to constitute groups of enterprises and establish statistics concerning these groups and the enterprises within them.	94	28	1985, 1986, 1987, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997,	Insee	<u>Statistical</u> <u>Confidentiality</u> <u>Committee</u>	
Characteristics of enterprises	LIFI	Financial Links between Enterprises This survey aims to identify and outline the groups of enterprises operating in France.	82	22	2012, 2013, 2014, 2015, 2016	Insee & Ministry of Finance (DGFiP)	<u>Statistical</u> <u>Confidentiality</u> Committee	

https://www.casd.eu/en/available-data-on-casd/



CASD data (269)

Themes:

- Agriculture
- Births Fertility
- Business demography
- Characteristics of enterprises
- Construction
- Couples, Families, Households
- Deaths, Mortality, Life expectancy
- Economic outlook
- Education, training, skills
- Employment, labour force
- Environment
- Foreigners, Immigrants
- Globalisation, competitiveness and innovation
- Health, handicap, dependency
- Household consumption and ownership rates
- Housing
- Income, Living standards, purchasing power
- Population, change and structure
- Public finance
- Safety, justice
- Social protection, pensions
- Society, social life, elections
- Transportation
- Unemployment
- Wages and salaries

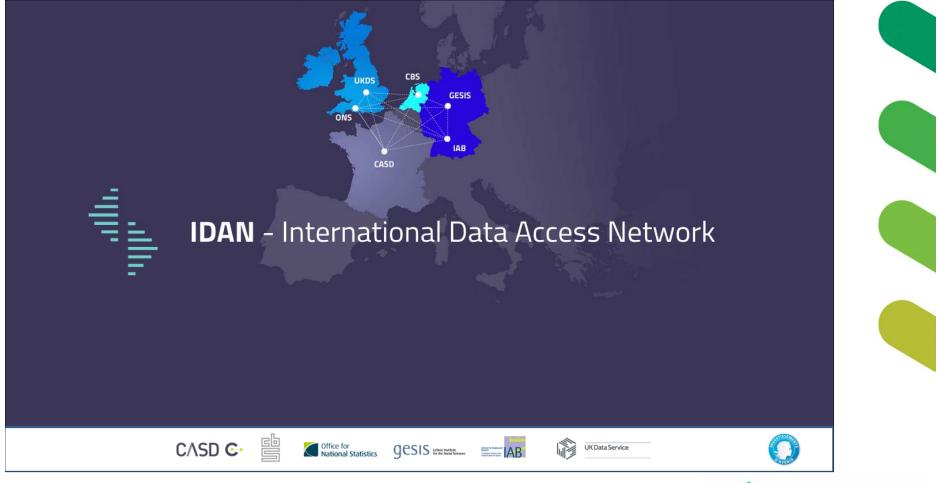
Producer list includes:

- Insee (NSI)
- Ministry of Labour (DARES)
- Ministry of Environment (SDES)
- Central Agency for Social Security (ACOSS)
- Institute for Research and Information in Health Economics (IRDES)
- Ministry of Finance (DGFiP)
- Ministry of Justice (SDSE)
- Public Investment Bank (BPIFrance)
- National housing information agency
- Hospital stays (PMSI)
- Directorate General for Enterprise (DGE)





'Transnational Access to Controlled Microdata'





Questions

