

Data Archives and Access to Government Data for Researchers:

State of the Art and Future Developments in Europe in the ERI Perspective

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Introduction



An increasingly complex environment

- In many European countries, improvements in quantity and quality of government microdata production have come with better conditions of access for researchers.
- Yet difficulties and inequalities in access remain. In particular:
 - diverse perceptions of confidentiality issues coexist;
 - discrepancies subsist between official procedures and actual practices;
 - documentation is often insufficient or uneven.
- This leads to low transparency and high complexity of the system.
- Complexity at the national level is reinforced at the European level, due to heterogeneities among countries.

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Introduction

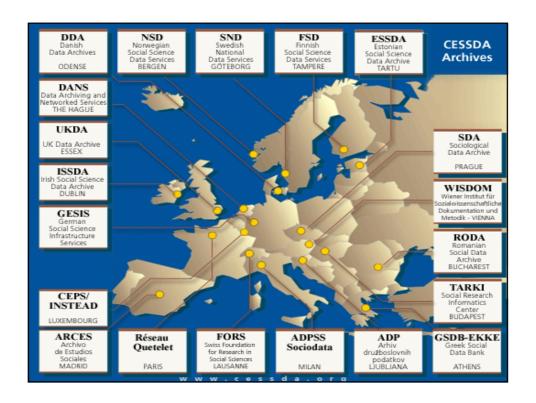


The case for a European research infrastructure

- In this context, a European Research Infrastructure can offer pathways for access by acting as a central data broker.
 - ⇒ CESSDA Data Archives have played this role for several years at national level: what can be their place at European level?

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Introduction



This paper

⇒ What follows aims to provide an overview of recent developments and trends, to position the contribution of CESSDA Data Archives so far, and to outline directions for further improvement.

Introduction

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Outline

Introduction

- 1. The structure of national statistical systems, and its impact on access
- 2. Existing modes of access to national data
- 3. Level of access, and who gives access to national data
- 4. Access to Eurostat and international data
- 5. Costs of access
- 6. Additional functions of CESSDA Data Archives

Conclusions

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Introduction



1. The structure of national statistical systems, and its impact on access



Structure of statistical systems

- Centralized vs. Decentralized System:
 - role of regional/local offices;
 - data produced by ministries, government departments, etc.
 - ⇒ one central data provider vs. several providers.
- Register-based data collection vs. questionnaires:
 - today, increasing use of administrative data in all countries
 possible changes in what is recognised as official statistics.
- The role of Central Banks in some statistical systems.
- The role of Eurostat.

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1. Structure



2. Existing modes of access to national data

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Evolving modes of access

- Public Use Files and Scientific Use Files:
 - Researchers vs. general public and/or students (CAMPUS files);
 - Differing degrees of detail (the notion of *de facto* anonymisation);
 - License vs. No license.
- Tabulations:
 - Public tabulations vs. special (bespoke) tabulations;
 - Development of web-based tools to customize tables.
- New solutions for confidential data:
 - Secure on-site data centres;
 - Secure remote connections through the Internet:
 - remote access vs. remote execution.

16/02/2009 Modes of Access

	Public use Files	Scientific use Files	Extracts (subsets)	Public tabulations	Special (bespoke) tabulations	Secure remote access / execution	On-site safe centres		
Population Census, Register, or Microcensus									
Household Surveys									
Data from Administrative Registries									
Business Data									
Other economic and financial data									
Table 1: Current modes of access, regardless of distributor, in European countries.									
> 9 countries 6-8 countries 3-5 countries < 3 countries									



Current modes of access

- Table 1 provides evidence that:
 - There has been significant progress in granting access to anonymised household survey data and (to a lesser extent) to census data;
 - Secure modes of access to more detailed datasets (safe centres and remote access facilities) are undergoing a rapid evolution.

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Modes of Access



3. Level of access, and who gives access to national data

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Three country studies

Different options for sharing dissemination responsibilities between National Statistical Institutes and CESSDA Data Archives.



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Who Gives Access

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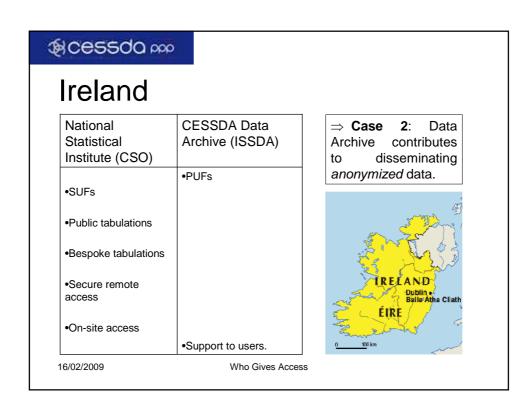
France

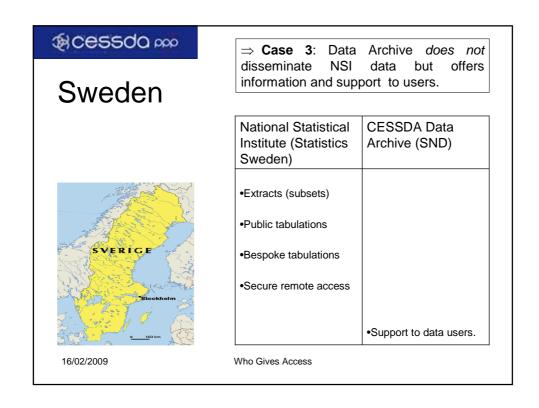
National Statistical Institute (INSEE)	CESSDA Data Archive (Réseau Quetelet)			
•PUFs	•PUFs			
	•SUFs			
Bespoke tabulations	• Contributes to			
	preparing bespoke tabulations			
-Domete access (nilet	•Collaborates to pilot			
•Remote access (pilot project)	project			
•On-site access				
-On-site access				

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⇒ Case 1: A Data
Archive disseminates
anonymized data and
offers mediation services
for confidential data.







The global picture

- Different types of mediation by Data Archives:
 - 1. Provision of information and support services to data users.
 - 2. Dissemination of anonymized data.
 - 3. Dissemination of anonymized data, and support for confidential data.
 - 4. Dissemination of anonymized and confidential data (NO, UK).
- How are these different functions distributed throughout Europe, by mode of access?

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	Access granted by the National Statistical Institute through the Internet	Access granted by the National Statistical Institute in other form (mail, on-site)	Access from a CESSDA data archive	Access from producer, with support from a CESSDA data archive			
Public Use Files							
Scientific Use Files							
Extracts (subsets)							
Public Tabulations							
Special (bespoke) Tabulations							
Secure remote access/execution							
On-site safe centres							
Table 2: Who distributes data, by mode of access, in countries in which there exists a CESSDA Data Archive. > 9 countries 6-8 countries 3-5 countries < 3 countries							



The global picture

- Table 2 provides evidence that:
 - Though many forms of access are dealt with directly by NSIs, CESSDA Data Archives play a role in several countries.
 - CESSDA Data Archives not only disseminate anonymized data, but also offer support for users of more detailed data (also including users of safe centres and remote access facilities).
 - Some CESSDA Data Archives are involved in the dissemination of detailed data (the case of Norway will be presented shortly).

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4. Access to Eurostat and international data



Access to Eurostat data

- Modes of access: SUFs and on-site safe centre.
- Eurostat negociates agreements with institutions, not individual researchers ⇒ Role of research and higher education institutions as intermediaries.
- · No role for Data Archives so far.
- Similar in other international organisations (OECD).

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Access to Eurostat Data



5. Costs of access



Costs of access

- Many countries have cut costs of access. Where costs subsist, they are offset by a Data Archive or Research Council on behalf of the national scientific community.
- In some countries, researchers still pay fees individually.
- Disparities have repercussions on access to Eurostat data: there is currently no arrangement for Data Archives to cover costs for the European research community.

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Costs of Access



6. Additional functions of CESSDA Data Archives



Functions of CESSDA Archives

- *Direct* dissemination to researchers:
 - Anonymised data and (sometimes) confidential data, as shown above.
- In addition, indirect mediation services:
 - Documentation, metadata preparation (GR, FR...)
 - Anonymisation (DE, NO, ...)
 - Archiving, deposit of government data (UK, ...)
 - Covering costs for access (FR, ...)
 - Information and support to data users (SE, SI...).

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CESSDA Data Archives



Conclusions



Conclusions

- Enhanced production of rich and useful data parallels rising complexity of access systems, both at national and (even more) at European levels.
- To satisfy an increasing demand of information services, documentation, and anonymisation, substantial resources are needed.
- A European Research Infrastructure may provide resources and assist NSIs in upgrading data services.
- CESSDA Data Archives have proven their ability to do so at the national level: can a similar collaboration take place at the European level?

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Conclusions



Thank you!

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