



# Konferenz für Sozial und Wirtschaftsdaten

## „Daten nutzen. Wissen schaffen“

**Impuls vortrag im Rahmen der Session  
„Datenschutz und Datenzugang im  
künftigen europäischen Rechtsrahmen“**

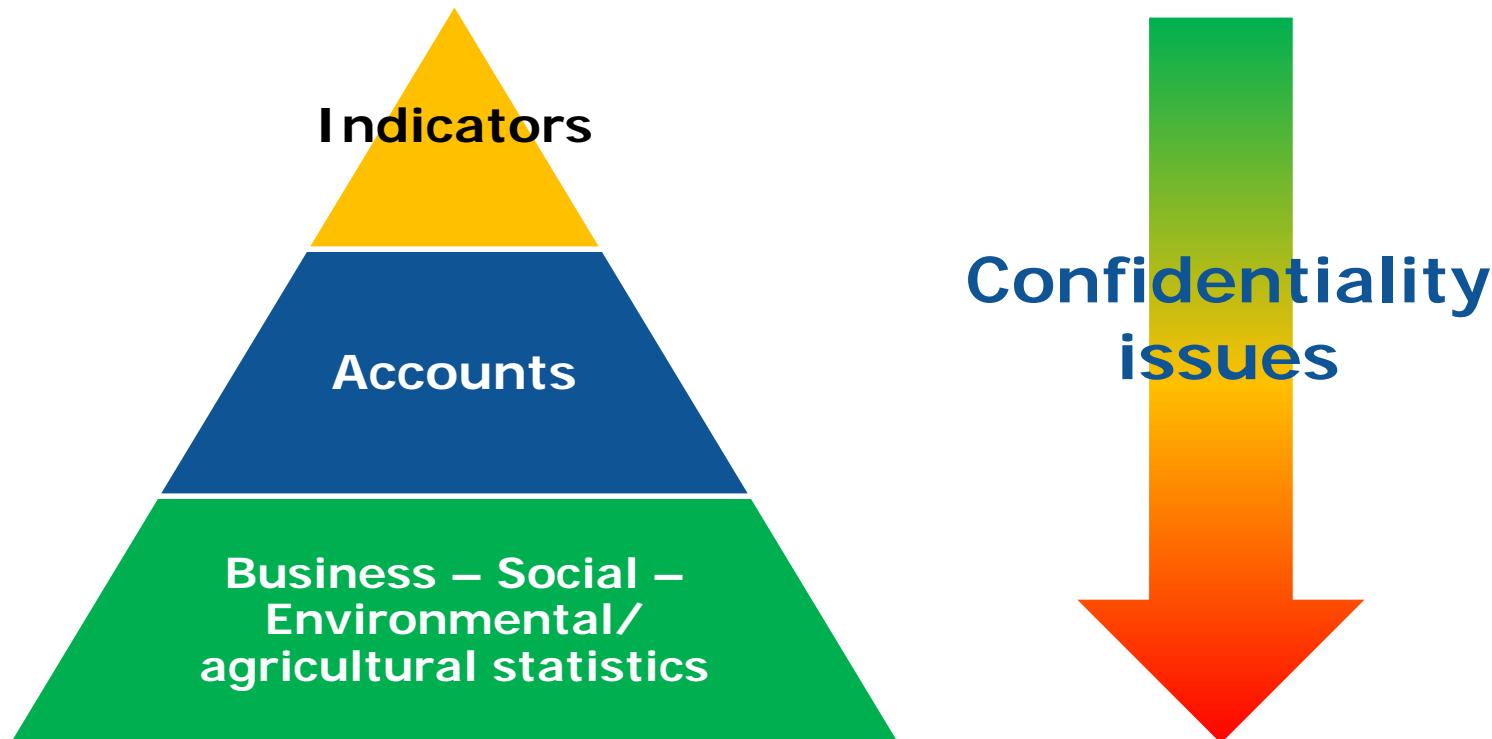
**Walter Radermacher**  
**Generaldirektor**

# Outline

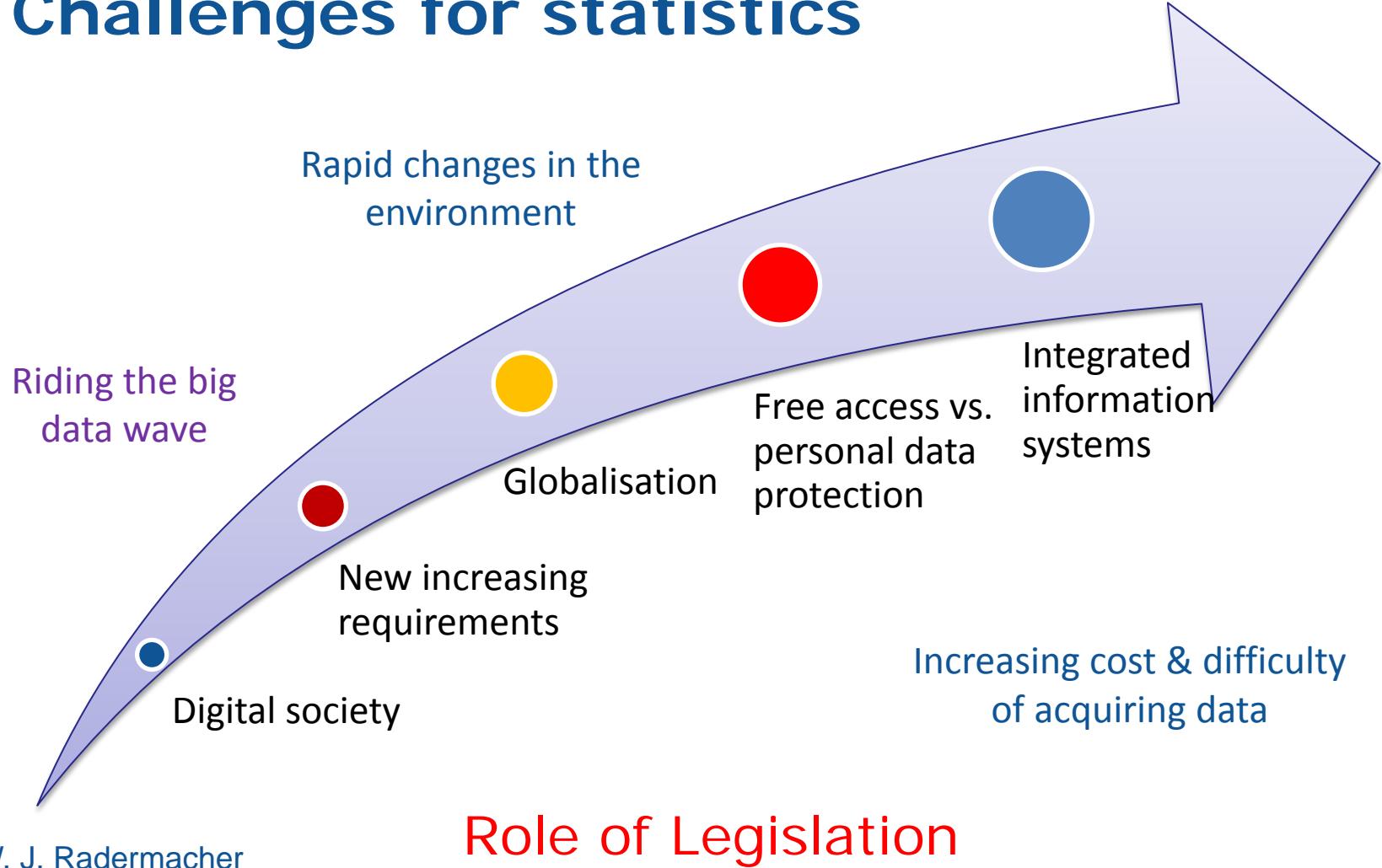
- Data protection and official statistics
- Challenges for statisticians in the digital society
- Data protection and the statistical legal framework
- Data Schengen
- New challenges
  - EDPS new legislation
  - Big data
- Way forward



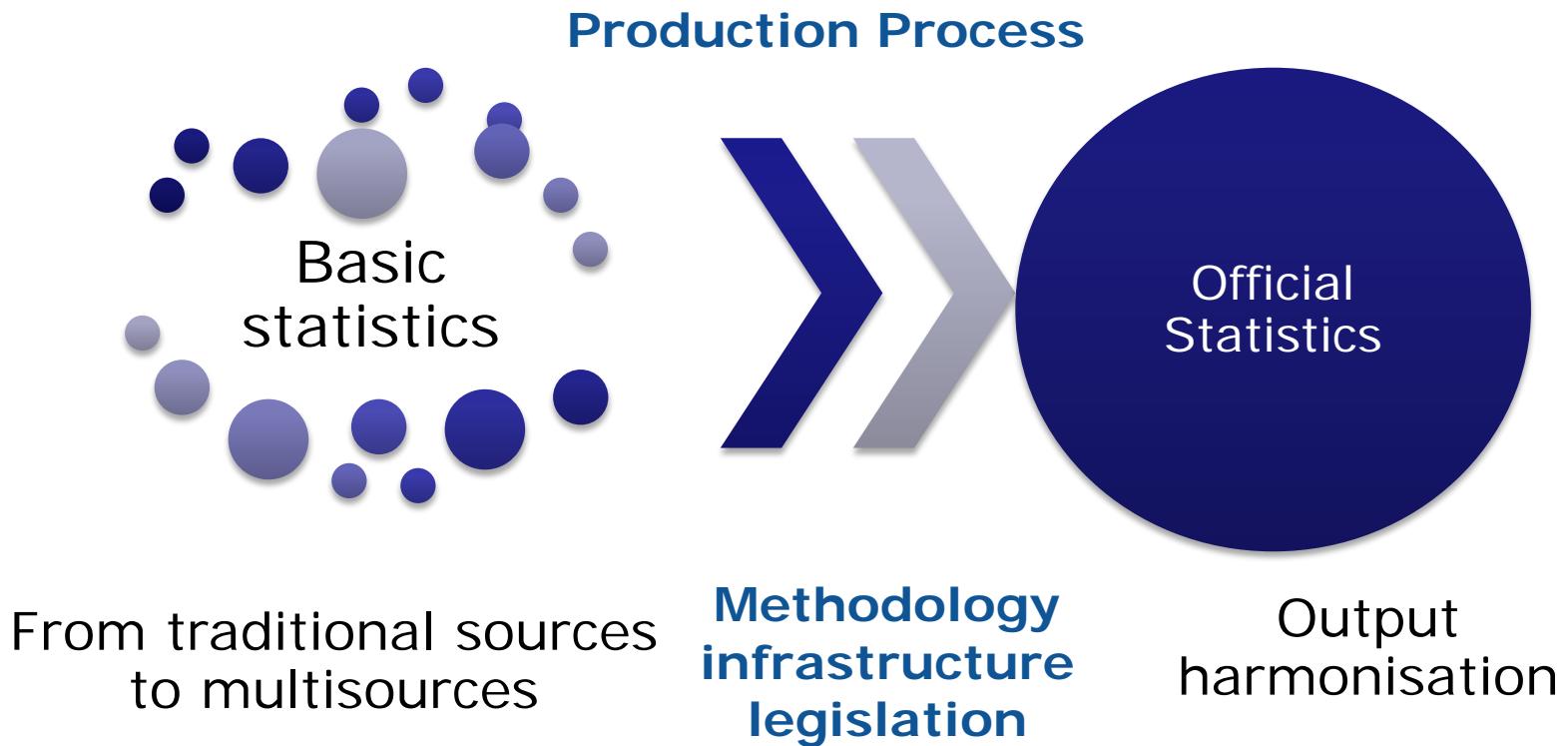
# Statistics and confidentiality



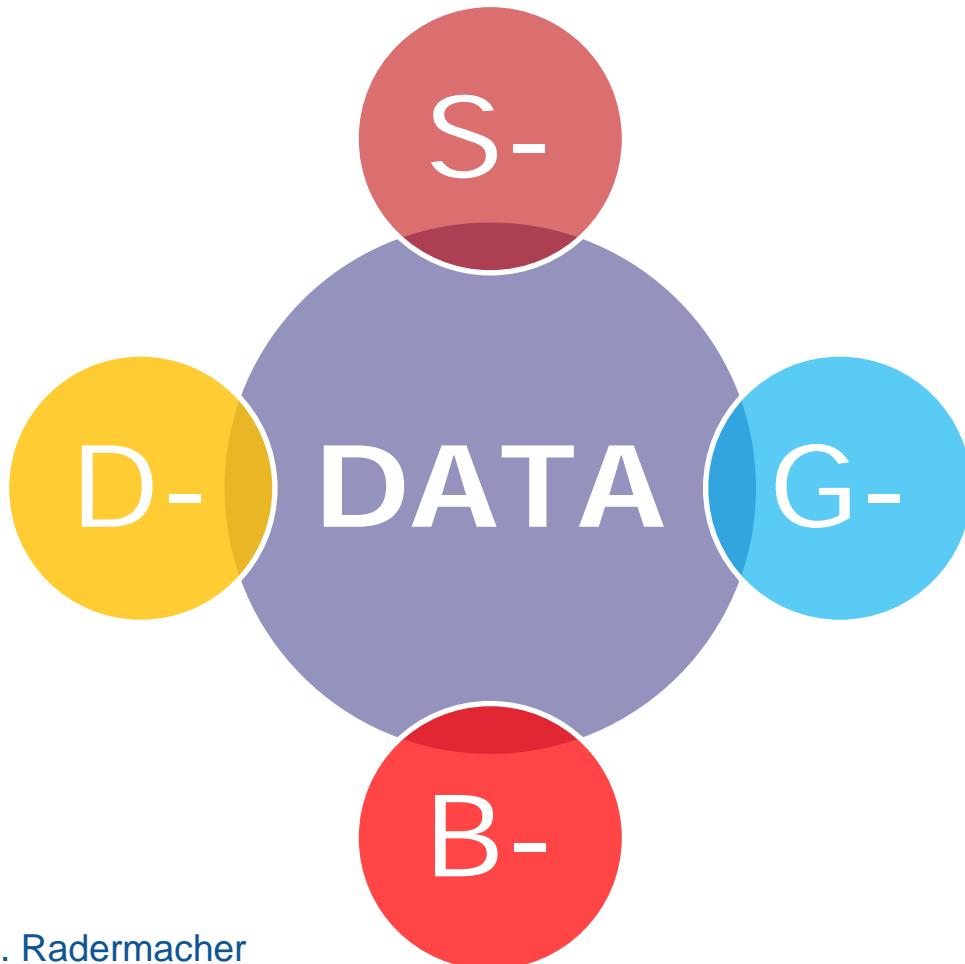
# Challenges for statistics



# What are the effects on official statistics?



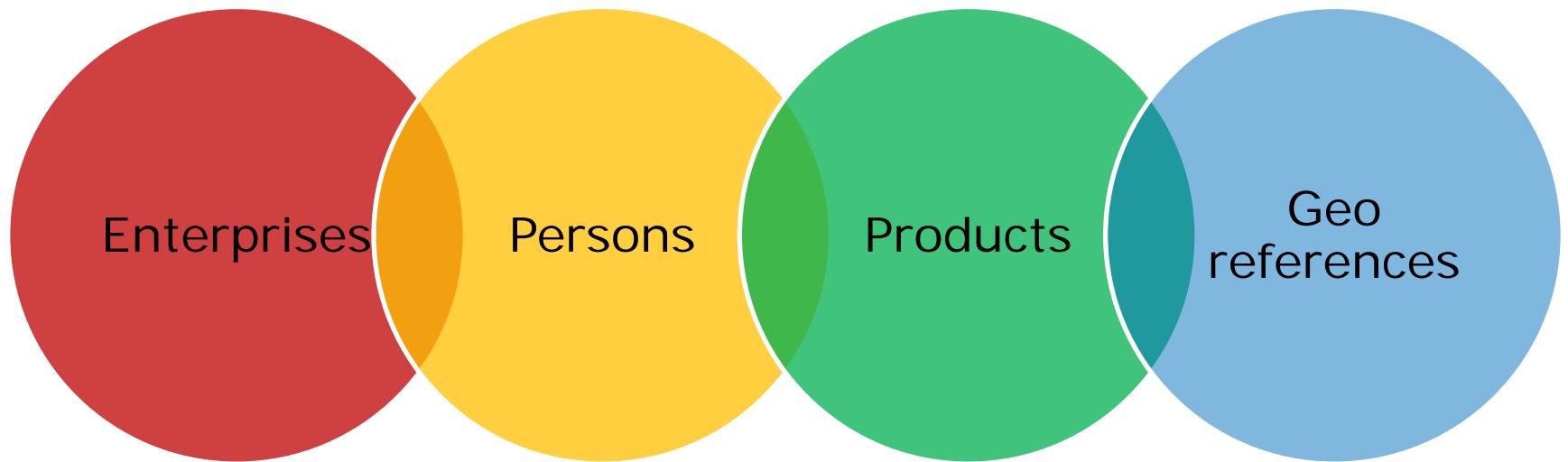
# Data: Multi-sources



- **S-DATA**
  - surveys
- **D-DATA**
  - administrative data
- **G-DATA**
  - geospatial data
- **B-DATA**
  - Big Data



## Data – clusters

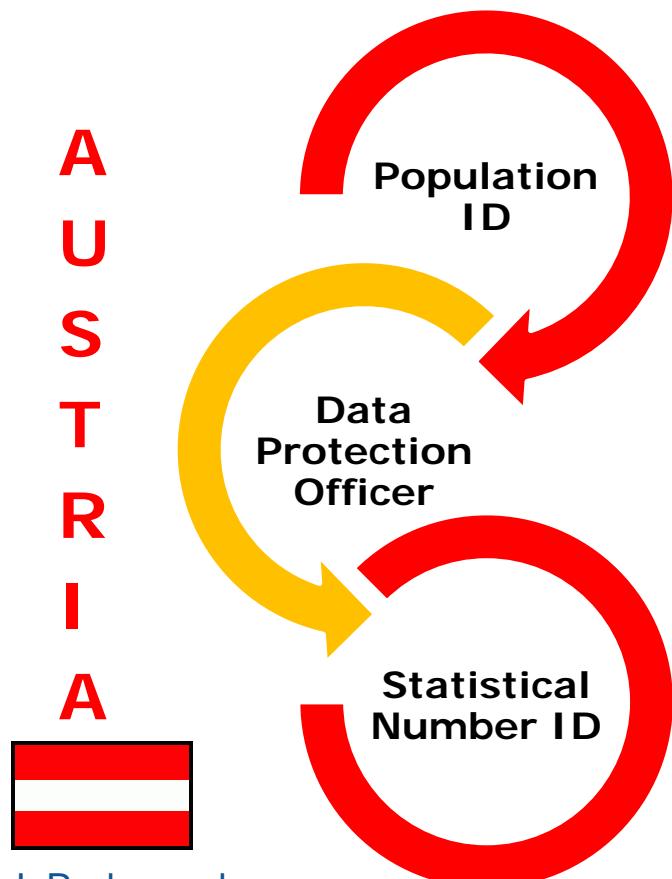


Single identifiers?

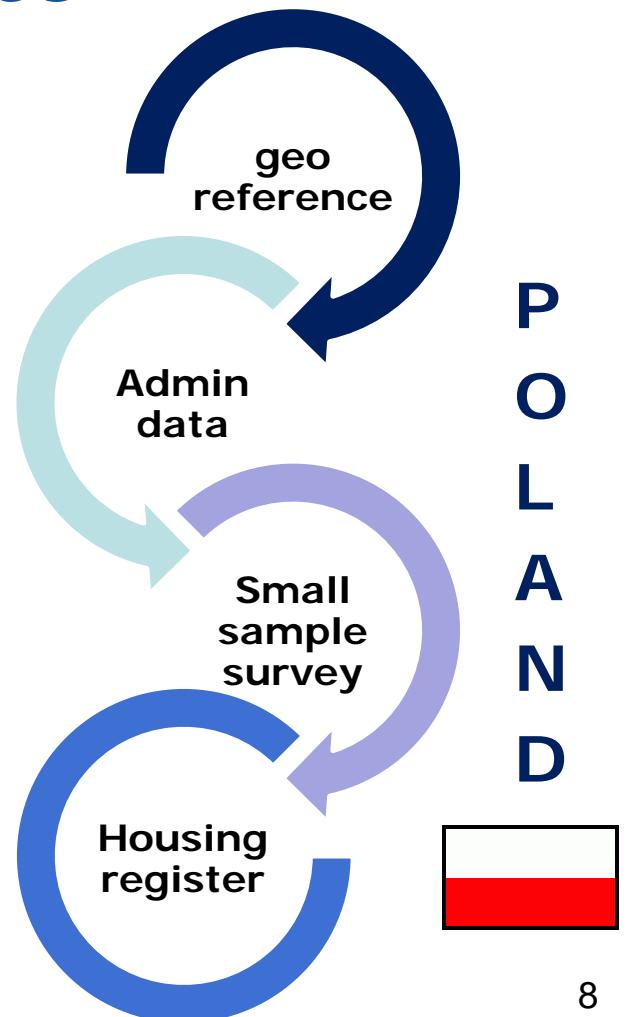
Same data protection?

# Data – different approaches

## The Census example



W. J. Radermacher



# Data – new thinking



Scanner data

Internet scraping



Big data



# Find the right compromise



**Full data  
protection**



**Full data  
acquisition**

National Security Agency



The free access to Information with at the same time protection of personal data of individuals will become the central task of the information society of the 21<sup>st</sup> century

# The Vision on production methods for EU statistics



Personal Data

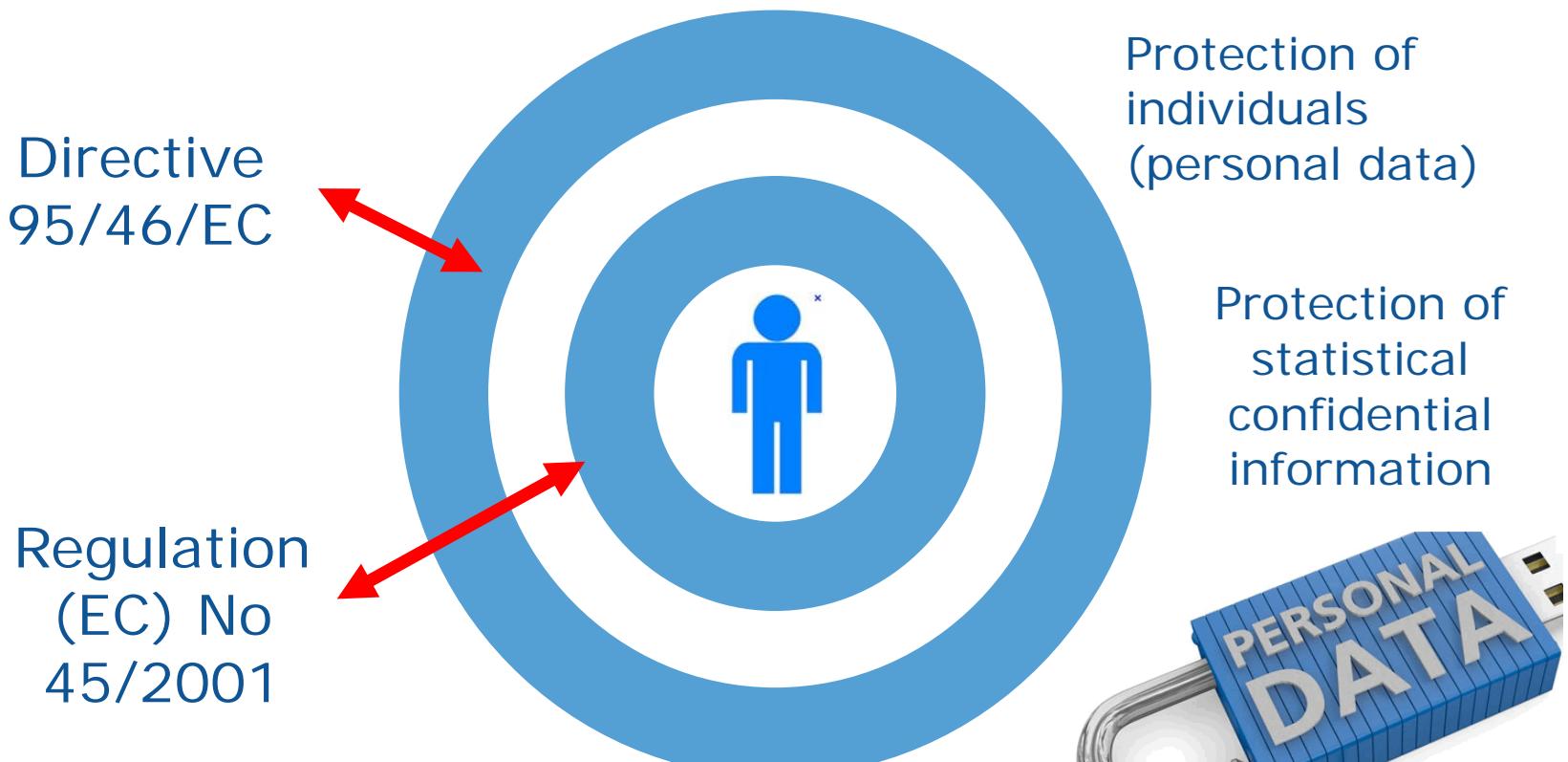


Data Protection



# Existing legal framework

Regulation (EC) No 223/2009 on European statistics





# Regulation (EC) No 45/2001 of 18 December 2000



Protection of individuals  
with regard to the  
processing of personal data  
... and on the free  
movement of such data



Statistics



# "Data Schengen" in the ESS

Easier access within the ESS for production purposes



Reinforced external security barriers

# How to implement the "Data Schengen"?



VIP SICON  
**Vision Infrastructure  
Project on Secure  
Infrastructure for  
CONFidential data access**





# Existing legal framework

Commission Regulation (EU) No 557/2013 on the access to confidential data for scientific purposes

**DARA:** Decentralised and  
Remote Access to ESS  
confidential data



# New Challenges for official European Statistics



New legal frameworks on:

- Protection of personal data
  - Risk linked to profiling
- Protection of confidential statistical data

Lift legal access restrictions to the freely available Internet Data sources

# EDPS – European Data Protection Supervisor



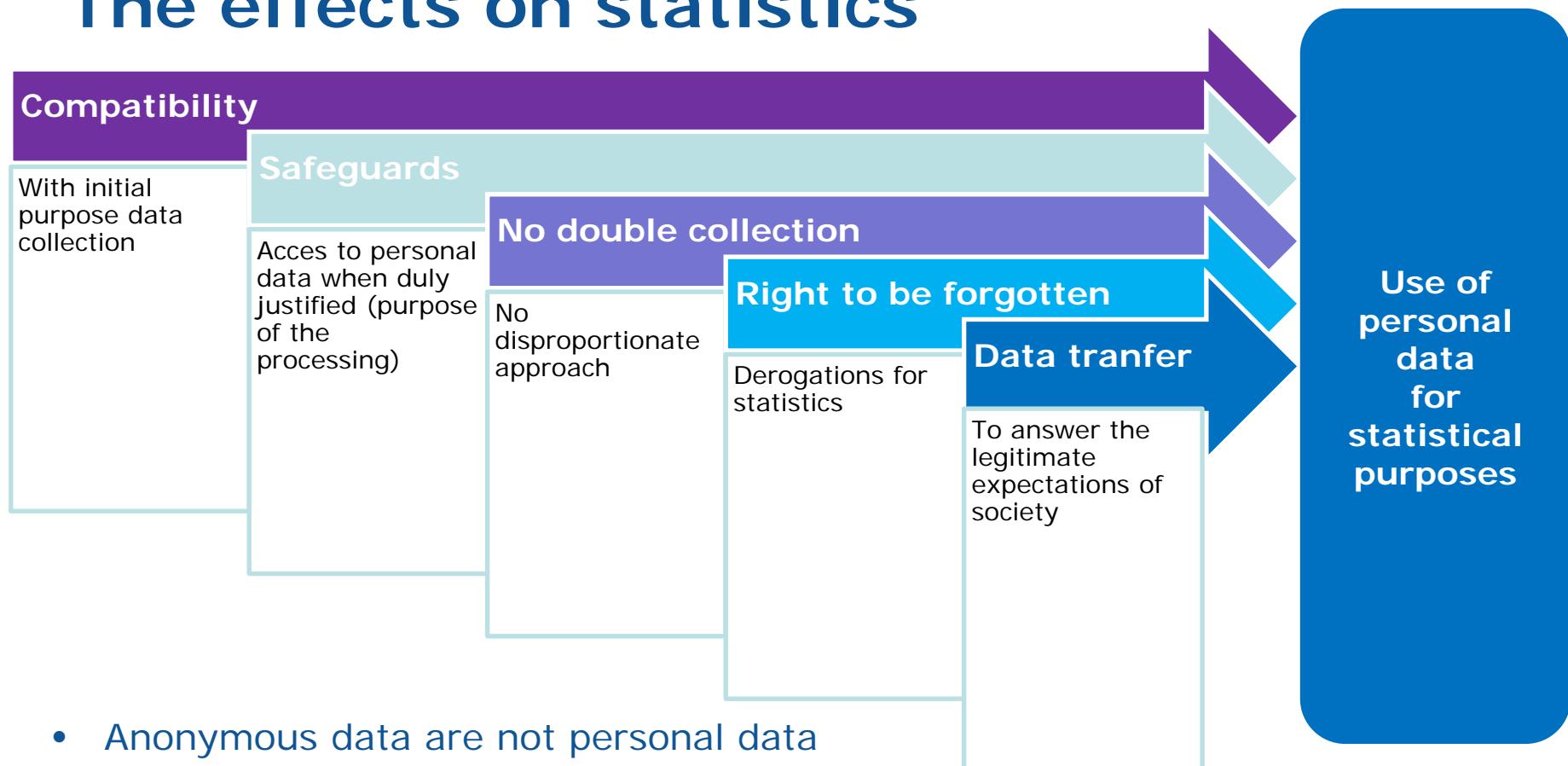
EUROPEAN DATA  
PROTECTION SUPERVISOR  
*The European guardian of personal data protection*

- Anonymisation and pseudonymisation
- Limitation and lawfulness of the processing
- Roles, responsibilities and liability of controller vs. processor
- Cooperation, consistency, binding powers EDP Bodies
- Sanctions
- EDPS: effective protection for EU citizens
- Legitimate expectations for an increase of knowledge

New legal framework  
Directive/  
Regulation



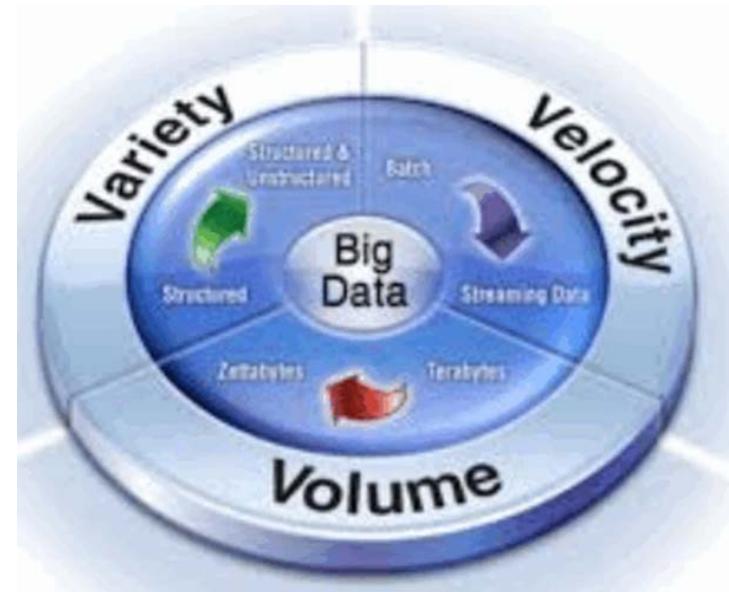
# The effects on statistics



- Anonymous data are not personal data
- Pseudonymised data remains personal data

# Big data

- Privacy under strain
- Opportunity offered by the reform of the data protection framework
- 2014 priority action for EDPS
- European strategy on value generation from data
- Revisiting core assumptions



... and since 2013 Validity

## ... and statisticians?



Scheveningen  
Memorandum  
Big Data and Official  
Statistics





# What does Big Data mean for Official Statistics?

## Legislation

- how to access and use data?

## Privacy

- how to manage public trust and acceptance of data re-use and linking to other sources?

## Resources

- what are the potential costs and benefits of using Big Data?

## Management

- what policies are necessary for the effective management and protection of the data?

## Methodology

- how to manage data quality? Are current statistical methods and models suitable for Big Data?

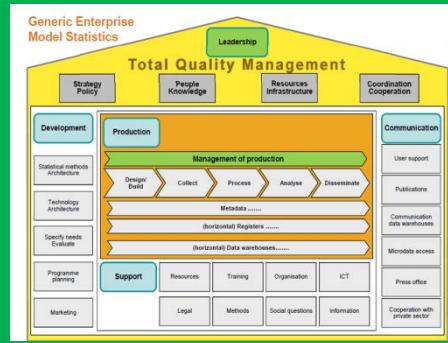
## Technology

- what are the issues related to information technology?

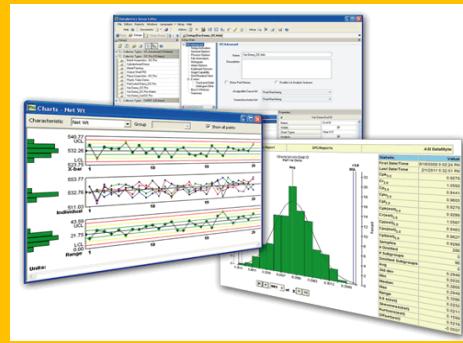
# Need for high-security and European-based digital business models for statistics



Data  
Input



Production  
Process  
Processing



Dissemination  
Output

Statistical Production Process

## Next steps

Peter Hustinx – EDPS:

*"Germany claims a special responsibility and role in the area of data protection. ... This will require a constructive and proactive approach in the European debate."*



This is valid in the European Statistical System too!

# Way forward



Modernisation

Multi-sources  
for multi-  
purposes

International  
coordination

Coordination  
with EDPS



**Ich danke Ihnen für Ihre  
Aufmerksamkeit**

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<http://ec.europa.eu/eurostat>**



# Sources

- [Communication from the Commission COM\(2009\) 404 "Vision"](#)
- [Regulation \(EC\) No 223/2009 on European statistics](#)
- [Commission Regulation \(EU\) No 557/2013 of 17 June 2013 implementing Regulation \(EC\) No 223/2009 of the European Parliament and of the Council on European Statistics as regards access to confidential data for scientific purposes](#)
- [Directive 95/46/EC on the protection of individuals with regard to the processing of personal data](#)
- [Directive 2002/58/EC on privacy and electronic communications](#)
- [Regulation \(EC\) No 45/2001 on the protection of individuals with regard to the processing of personal data](#)
- [EDPS – European Data Protection Supervisor](#)
- EU Data Protection Reform – Draft [Directive](#) – Draft [Regulation](#)
- EU Data Protection Reform - [EDPS Webpages](#)



# Sources

- [Additional EDPS comments on the data protection reform package](#)
- EDPS Press Releases – [20/03/2013](#) - [16/01/2014](#)
- EDPS priorities – Data Value Chain (Big Data) – [Elements](#) – [Strategy](#)
- ["Big data for Europe" Speech by Neelie Kroes](#)
- ["Big Data" and Profiling Pleading of the EDPS before the ECJ](#)
- [The 35th International Conference of Data Protection and Privacy Commissioners – Big Data and Profiling](#)
- [CEPS: Online Personal Data Processing and EU Data Protection Reform](#)
- [UNECE and "Big Data"](#)
- [UNECE - The Role of Big Data in the Modernisation of Statistical Production](#)
- [UNECE - The Role of Big Data in the Modernisation of Statistical Production – Full document](#)



# Sources

- [UNECE - WHAT DOES “BIG DATA” MEAN FOR OFFICIAL STATISTICS?](#)
- [UNECE - Classification of Types of Big Data](#)
- [UNECE - Big Data Inventory](#)
- [EUROSTAT/ISTAT Big Data Event in Rome](#)