Where do they come from – Big Data?

- Credit card transactions
- Commodity (RFID) tracking
- Toll road recording
- Electronic tickets (travel/entertainment)
- Public services offered electronically
- Immigration control
- Mobile phone use
- Internet and social media use
- GPS tracking of traffic and transport





The 15 Principles in the European – ESS - Quality Assurance Framework

- Principle 1 Professional independence
- Principle 2 Mandate for Data Collection
- Principle 3 Adequacy of Resources
- Principle 4 Commitment to Quality

Principle 5 – Statistical Confidentiality

- Principle 6 Impartiality and Objectivity
- Principle 7 Sound Methodology
- **Principle 8 Appropriate Statistical Procedures**
- Principle 9 Non-excessive Burden on Respondents
- **Principle 10 Cost effectiveness**

Principle 11 – Relevance

- Principle 12 Accuracy and Reliability
- **Principle 13 Timeliness and Punctuality**
- Principle 14 Coherence and Comparability
- Principle 15 Accessibility and Clarity



"Your recent Amazon purchases, Tweet score and location history makes you 23.5% welcome here."

Challenges

- Data access most Big Data are owned by private companies
- Data analysis looking for patterns in huge piles of data
- Data usage how do Big Data fit with the classification systems used by official statistics?
- Data quality metadata
- Privacy issues



Thank you very much for your attention

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