



# Structure of Ethical Issues in New Data Ecosystems

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## **Outline: Structure of Ethical Issues**

- Methodology
- Data and results
- Conclusions
- Discussion

#### **Methodology – study of professions**

- Study of professions is an established field of research in social sciences.
- Professional ethics is an established subject in studies of professions.
- Study design:
  - Two recent incidents of distrust analyzed.
  - Public distrust emerges, when perceived behavior (of the professionals) does not comply with the expectations of the audience (expected ethics).
  - Research question: What were the main differences between perceived and expected behavior.
- ISI Declaration on professional ethics used as framework to analyze the incidents
  - which aspects of the ISI code emerged in incidents, and which not.
  - which core values were perceived being violated.





### **Case 1: Attempted healthcare reform in Finland**

(... one of many attempts, this was in 2015-2019 ...)

- New regional administrative layer (welfare areas)
  - To manage public health services and social care (read: old people care).
- Allocation of central government funding
  - To private and public service providers in new welfare areas.
- Capitation reimbursement model
  - An individual health risk coefficient for all citizens
  - Micro-data on health records and socio-economic status.
- Public debate on the approach
  - Plan not accepted by the parliament and Government resigned, but not only for data related reasons.





#### Case 2: New data sources

- New Statistics Act of Norway:
  - Powers to NSI to access privately held data
- The data request:
  - Detailed information on consumption, based on cash registers, to be statistically linked with payments data (credit cards).
  - To replace Household Budget Survey and to provide new statistics on health aspects of the diets.
- Public debate of the approach:
  - (Many) Data holders rejected the request, being worried of their own reputation.
  - Data Protection Supervisor gave negative opinion.
  - Plan halted, negotiations with DPA and data holders continue.



#### **ISI** declaration of Professional Ethics – perceived violations

- Core values:
  - Respect, professionalism, truthfulness and integrity
- Ethical principles
  - 1. Pursuing Objectivity
  - 2. Clarifying Obligations and Roles
  - 3. Assessing Alternatives Impartially
  - 4. Conflicting Interests
  - 5. Avoiding Preempted Outcomes
  - 6. Guarding Privileged Information
  - 7. Exhibiting Professional
  - 8. Maintaining Confidence in Statistics
  - 9. Exposing and Reviewing Methods and Findings
  - 10. Communicating Ethical Principles
  - 11. Bearing Responsibility for the Integrity of the Discipline
  - 12. Protecting the Interests of Subjects

- Respect:
  - 12. Protecting the interest of the subject
    - Perceived as a risk by the audience
- Professionalism
  - 3. Assessing alternatives impartially
  - 10. Communicating ethical principles
    - No alternative to intrusive methodologies were considered
    - Tertiary users (in healthcare-case) failed to understand the sensitivity of their approach
- Truthfulness
  - 2. Clarifying Obligations and Roles
  - 8. Maintaining Confidence in Statistics
  - 9. Exposing and Reviewing Methods and **Findings**



#### **Conclusions**

- The researchers and institutions acted by the book, no (traditional) professional misconduct.
- The audience perceived the actions quite differently: attempts to create a new, potentially better funding system became difficult or impossible (Case #1). Data providers didn't trust NSI's good intentions (Case #2).
- The stakeholders and supervisors perceived the actions quite differently
  - The legislators (Case #1) and Data protection supervisor (Case #2) disagreed.
- Conclusion: The current professional code does not support statisticians in emerging new data ecosystem roles.



#### **Discussion**

- Possible reason for missing guidance: The basic assumption behind current codes is that all data is collected by NSIs, mainly by surveys. This not true any longer.
  - In Finland about 99 per cent of data points used for statistics are coming from admin registers.
  - Most countries will face the same situation as the censuses and (other statistics as well) are moving rapidly towards use of administrative data.
  - It's big question how this rich data can be used efficiently for different purposes and what's role of NSI in this.
- Proposal: Our profession should aim at broader code, including advices for emerging data ecosystem roles:
  - General principles.
  - Guidance for practical cases:
    - Secondary and tertiary use of data (use of admin data for statistics and for research).
    - Combining data from different sources (both admin data and privately held data).
    - Use of micro-data (or very granular statistics) in knowledge-based decision making.

