





Ethics and Trustworthiness of Algorithmic Decision-making Systems in The Public Sector

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BACKGROUND:

Increased use of ADS in public sector

Low Trust in ADS

RESEARCH AIM:

Investigate Ethical & Trust-related Factors that affect the adoption of ADS in various public sector contexts.

² METHODOLOGY:

- Large-scale survey on public trust in ADS, with 344 participants from 15 countries
- In-depth interviews
- Case study

References:

Cabiddu, F. et al. (2022) 'Why do users trust algorithms? A review and conceptualization of initial trust and trust over time', European Management Journal.

EU High-Level Expert Group on Artificial Intelligence (2019) Ethical guidelines for Trustworthy Al.

Castelluccia, C. and Métayer, D. Le (2019) *Understanding algorithmic* decision-making: Opportunities and challenges, European Parliamentary Research Service.

Individual factors



Characteristics

- Propensity to trust
- Demographics

Ability

- Ability to use
- Prior experience

Perceptions

- Perceived control
- Algorithmic bias

Technological factors



- Transparency & Explainability
- Reliability and technical robustness
- Fairness/Non-discrimination
- Accountability
- Safety

Contextual factors



Institutional factors

- Communication
- Training
- Culture
- Regulations

Task characteristics

- Nature of tasks
- Situational risk

in Algorithmic

TRUST

Decision-making System







Ollscoil Teicneolaíochta na Mumha













Olssool
Telconoelsiochta
an Atlantia
Atlantia
Vechnological
University









