

Connected and Fair

Ethical IoT for Social Housing



Outline

- Overview of ethics
- Importance of ethics for IoT
- Connected and Fair research
- Ethical principles
- Key messages and recommendations



What is ethics?

- A system of moral principles that guide individuals or groups
- Asks questions about what is right and wrong
- Rights and responsibilities
- Informs decision making

"Ethics comes before the rules, during the rules and after the rules."

- Professor Luciano Floridi, Digital Ethics Lab - University of Oxford

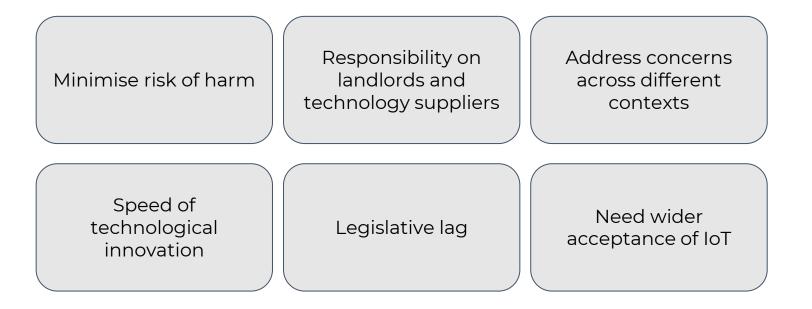
What is ethical practice?

- 1. Beneficence "Do good"
- 2. Non-maleficence "Avoid harm"
- 3. Autonomy "Preserve human agency"
- 4. Justice "Fairness and equity"
- 5. Explainability "Understandable"

What influences ethics?

- Personal characteristics and upbringing
- Social norms, cultural factors, religion
- Other contextual factors e.g. geography, politics
- Legal considerations
- Time

Why is ethics important for us?



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Ethics examples

- "Disreputable landlords abusing tenants via technology, e.g. keeping heating too low, using stats to disguise disrepair, blaming tenants for damp caused by disrepair etc"
- "Extra environmental impact"
- "Most people are fully capable of adjusting their heating etc as required. This technology is fine for incompetent people... who should be looked after in care homes!"
- "What is all this technology doing to our health?"
- "The landlord will have their own agenda and tenants will be powerless"

How can we contribute?

Governance Ethics

Decision-making Transparency Trust Purpose of data collection Feedback and auditing Codes of practice

Information

Technology Ethics

Embedded bias

Data quality

Data sharing

Data ownership

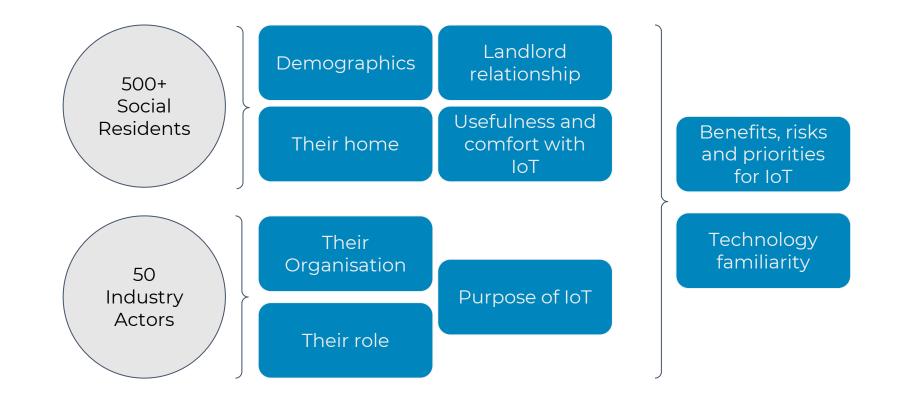
Fit for purpose

Usability

User empowerment

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Connected and Fair Research



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Connected Home Benefits and Risks

Benefits

- Improving resident safety
- Greater convenience
- Financial savings
- Social and environmental improvements
- Compliance

Risks

- Data privacy and sharing concerns
- High cost
- Lack of knowledge
- Lack of trust technology and organisations
- Absence of regulation

• Organisations > Residents

• Residents > Organisations

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Resident acceptance



Usefulness

with technology



Convenience



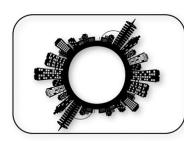




Risk



Ease of use



Trust in governance



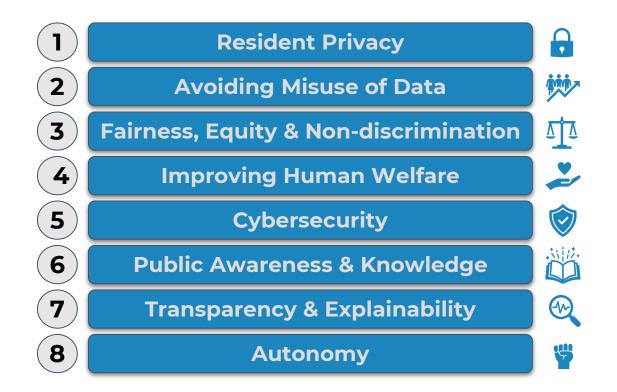
Autonomy



Age



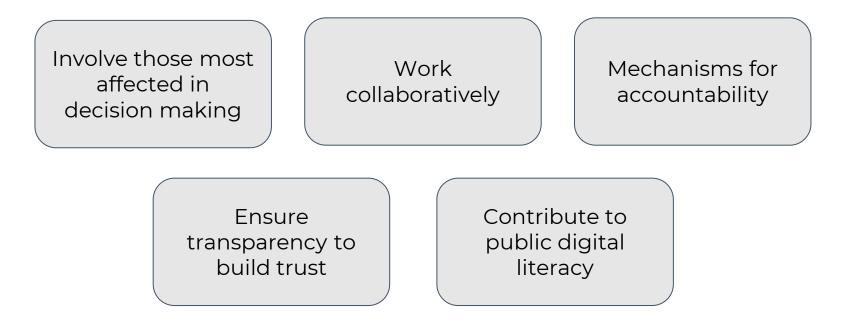
Ethical principles



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Key recommendations

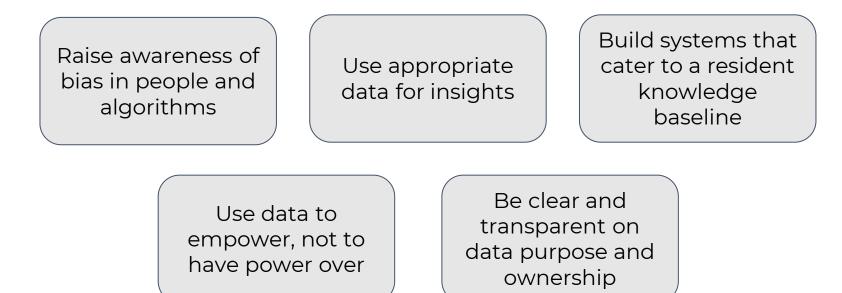
Governance Ethics



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Key recommendations

Technology Ethics



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Key messages

- 1. We have to operate ethically in the connected home sector
- 2. Everyone in the sector should be doing this, so we're actively promoting it and engaging in the conversation
- 3. There are two core approaches to addressing ethical issues governance and technology
- 4. Everyone who is affected should have a say and we will facilitate this
- 5. It's not up to us to decide what is 'ethical'. Different situations will have different ethical issues