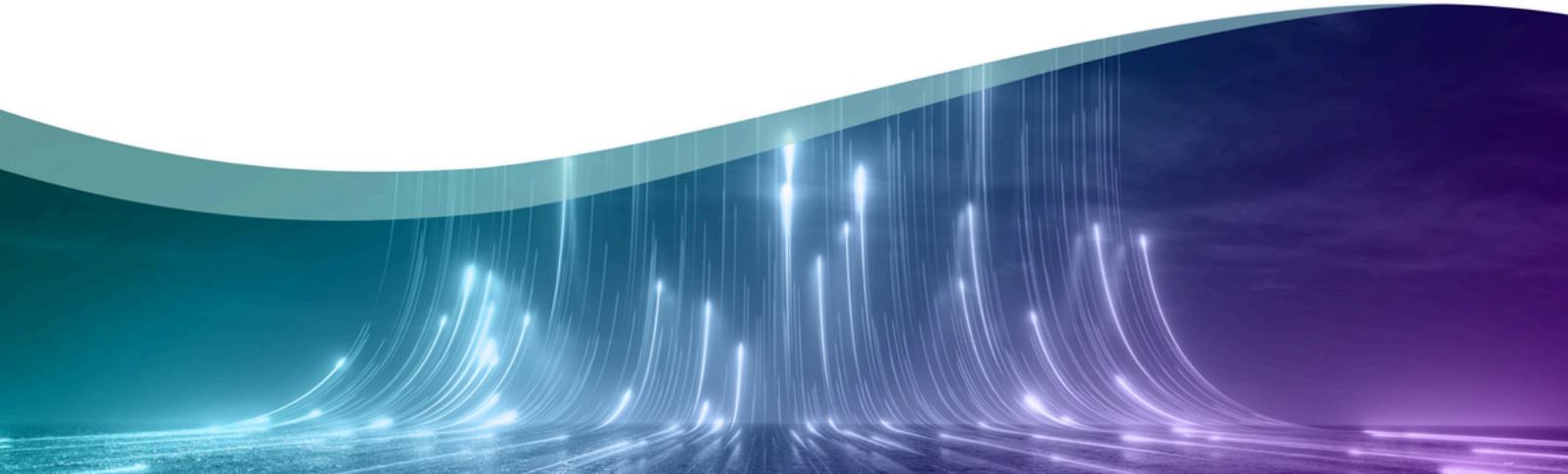


Municipal and Regional Data Usage

Policy Brief

Part 3: Ethics, Rights & Regulatory Framework



Ethics, Rights & Regulatory Framework

Why It Matters

Modern municipalities need robust ethical frameworks that can adapt to emerging technologies.

Municipal data usage operates within rapidly evolving regulatory and technological landscapes that require forward-thinking approaches to remain effective and compliant. Digital transformation presents significant opportunities for municipalities **to improve service delivery, enhance citizen engagement, and build more sustainable communities.**

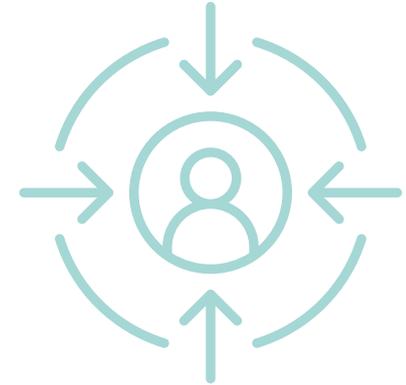
A human-centric framework enables municipalities to harness these opportunities while **maintaining public trust and democratic accountability.** Modern municipalities need **robust ethical frameworks** that can adapt to emerging technologies while ensuring digital initiatives serve community wellbeing, environmental sustainability, and democratic participation. This proactive approach helps municipalities build resilient digital capabilities that can evolve with changing needs and technologies.



Human-Centric Ethical Framework

Core Human-Centric Principles

- **Community self-determination:** Enable citizens and communities to be stewards of their own data through fair and secure sharing architectures rather than being subject to external control
- **Transparency and accountability:** Make data processing methods understandable and accessible for external assessment by community members and civil society organizations



Municipal AI Governance & Community Oversight

- **Local AI databases:** Create municipal AI training datasets reflecting local demographics and contexts to prevent algorithmic bias against community members
- **Community AI oversight:** Require meaningful community participation in all municipal AI system decisions before deployment, ensuring residents shape how technology affects their lives
- **Transparent AI standards:** Establish clear curation standards and terminology for municipal AI systems with public accountability mechanisms
- **Prohibit discriminatory AI:** Prevent AI systems from reinforcing discrimination against individuals or groups within the municipality

European Municipalities 2024-2025 facing these AI implementation barriers:

80%

Limited Resources & Expertise

75%

Regulatory Complexity

70%

Data Management Issues

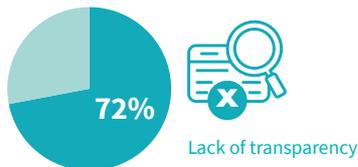
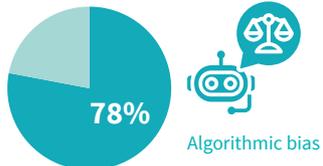
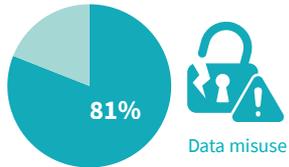
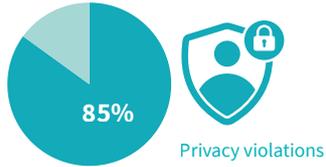
66%

Public Trust & Transparency

Sources: European Committee of Regions (2025); Trilateral Research Study (2025)

**Ethical Concerns in Municipal Data Usage:
Severity rating by stakeholders (0-100 scale)**

Source: EU Agency for Fundamental Rights “GDPR in Practice” 2024; Eurocities Ethical AI Framework



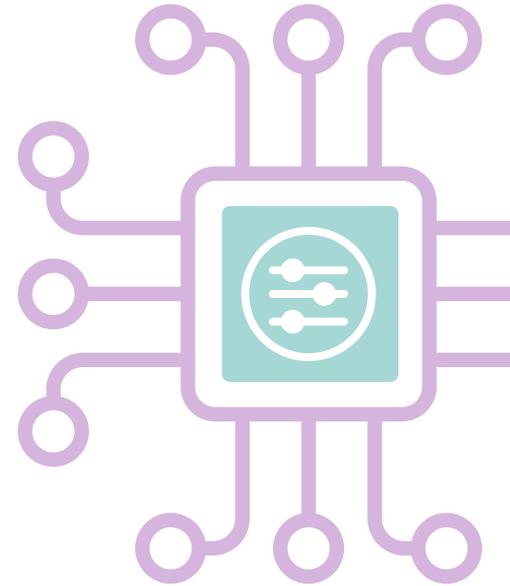
Digital Rights Protection & Municipal Safeguards

- **Safeguard freedom of expression:** Municipal authorities ensure protection against censorship, internet shutdowns, and restrictions on democratic discourse in local digital spaces
- **Prevent harmful AI surveillance:** Municipal policies prohibit biometric identification in public spaces and predictive policing systems that threaten community privacy and democratic participation
- **Limit surveillance expansion:** Municipal oversight prevents broad surveillance powers that undermine private communication and restricts facial recognition technologies
- **Address digital violence:** Municipal services provide support for gender-based digital violence, cyberbullying, and targeted harassment affecting vulnerable communities
- **Support transparency:** Municipal frameworks protect whistleblowers and journalists who contribute to public accountability

Legal & Regulatory Compliance

Municipal Regulatory Approach

- **Extend European standards locally:** Build upon European and national legislation as baseline, developing additional local policies for specific community needs while maintaining regulatory competitiveness through uniform standards
- **Implement precautionary principles:** Assess potential harms of new technologies before deployment, particularly impacts on vulnerable groups
- **Enable community accountability:** Create mechanisms for citizens to understand and influence municipal technology decisions without technical barriers
- **Develop adaptive frameworks:** Build regulatory approaches that can evolve with technological advancement while maintaining core democratic values
- **Foster regulatory innovation:** Create municipal testing environments for new data governance models while ensuring citizen protection



Sustainable Digital Transformation & Systemic Risk Management

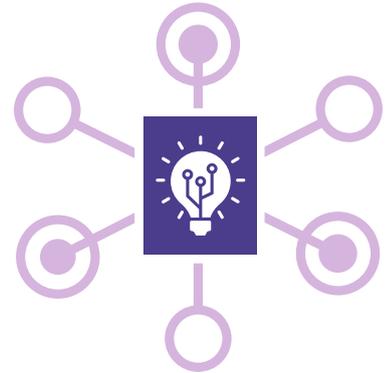
Environmental & Circular Economy Principles

- **Environmental responsibility:** Implement environmental impact assessments for energy-intensive municipal AI systems and digital infrastructure, addressing carbon footprint, water use, and rare mineral demand
- **AI impact research funds:** Establish municipal funds for independent research on AI social, economic, and environmental impacts on local communities
- **Democratic protection:** Assess and mitigate threats to local democratic processes from AI and automated systems
- **Circular cities integration:** Develop municipal policies supporting device longevity, reducing electronic waste, and promoting circular economy principles in urban digital infrastructure
- **Sustainable procurement:** Use digital product passports and lifecycle assessments for municipal digital devices



Global Responsibility & Cooperation

- **Share municipal innovations:** Contribute local digital solutions to global networks while learning from international best practices
- **Support inclusive development:** Use municipal digital resources to address global challenges like climate change through collaborative, community-controlled approaches
- **Promote equitable partnerships:** Ensure municipal digital cooperation creates mutual benefit rather than extractive relationships



Implementation Priority

Establish **municipal digital commons as public infrastructure** through integrated approach combining technical infrastructure, democratic governance, and human-centric ethics. **Prioritize community stewardship** over individual consent models, **regional collaboration** over isolated municipal solutions, and **democratic alternatives** over Big Tech dependencies. Focus on building **data cooperatives and participatory governance** that distribute decision-making power among community members rather than centralizing control in municipal hierarchies or external corporations. **Address environmental impact** while using technology to advance sustainability and democratic participation through community-controlled systems that serve local needs and contribute to global democratic digital governance.

About This Policy Brief

This policy brief was developed through the Data for All project, in partnership with all project partners. The recommendations presented here emerged from the cited sources, academic literature, EU policy frameworks, and hands-on implementation experience across participating municipalities. While grounded in documented research and verified data, these recommendations represent our synthesized understanding of how municipalities can successfully navigate digital transformation while maintaining democratic control, technological sovereignty, and ethical standards in data governance.

Sources

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- Gstrein, O.J. (2023): "Data Autonomy: Recalibrating Strategic Autonomy and Digital Sovereignty" (including expert interview, June 2025)
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Co-funded by
the European Union

Data for All

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