AI4 WASTE

FOSTERING AWARENESS AND INNOVATION IN ADULT EDUCATION

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TOOLKIT

Case Study #10 of application of artificial intelligence to the urban waste management sector in Europe

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SUMMARY

Case Study #10 of of application of artificial intelligence to the urban waste management sector in Europe – Everledger (United Kindgom).



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EVERLEDGER

Case Study: Everledger (United Kingdom) – AI in Waste Management

Everledger, primarily known for its use of blockchain and Artificial Intelligence (AI) to track and verify the provenance of diamonds and luxury goods, has expanded its technology into waste management and the circular economy. The company applies AI and blockchain to create digital ledgers for tracking materials, ensuring that waste streams, particularly electronic and hazardous waste, are managed sustainably and that materials are kept within the economy for as long as possible.

How Everledger Uses AI in Waste Management

- **Blockchain-Based Material Tracking**: Everledger integrates AI with blockchain technology to create a digital ledger for tracking the lifecycle of materials, from production to disposal and recycling. This technology ensures transparency and traceability, which are critical in the management of electronic waste (e-waste) and other hazardous materials.
- **AI for Waste Flow Optimization**: AI algorithms developed by Everledger help waste management companies optimize the flow of materials by analyzing data on the composition of waste streams. The AI system helps to: Improve material recovery; Reduce contamination.
- **Circular Economy Solutions**: Everledger's AI and blockchain platform are designed to promote circular economy principles by keeping materials in use for as long as possible. The platform: Facilitates recycling and reuse (AI tracks materials); Provides transparency in material flows (AI-driven insights)..

Benefits of Everledger's Solutions

- Traceability and transparency; Regulatory Compliance; Sustainability and Circularity.

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