



# Metropolitan Nashville and Davidson County, TN

## Legislation Text

---

**File #:** RS2023-2304, **Version:** 1

---

A resolution authorizing the Metropolitan Government of Nashville and Davidson County, through the Department of Water and Sewerage Services, to enter into a recycling technology pilot program with Sensoneo and to accept a donation of \$14,000 for hardware integration, temporary licensing, and services associated with the program.

WHEREAS, Sensoneo has developed WasteVision AI, artificial intelligence and machine learning technology, that leverages existing on-truck camera technology to automatically identify contamination in residential curbside carts and tie the contamination to the residence of origin for use in direct resident education about recycling correctly; and,

WHEREAS, Metro's curbside recycling contamination rate is approximately 22% of material placed in curbside recycling carts and represents a significant cost to the recycling program; and,

WHEREAS, Metro's Waste Services Division includes a fleet of approximately 90 waste and recycling vehicles ("Solid Waste Vehicles") that service the approximately 142,000 households within the city limits; and,

WHEREAS, the parties are interested in conducting a joint, 90-day technology pilot to test the WasteVision AI contamination detection technology to improve the efficiency of the residential recycling program and improve communication with residents regarding recycling right.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY:

Section 1. That the Metropolitan Government of Nashville and Davidson County, through the Department of Water and Sewerage Services, is authorized to enter into a recycling technology pilot program with Sensoneo and to accept a donation of \$14,000 for hardware, temporary licensing, and services associated with the program.

Section 2. That this resolution shall take effect from and after its adoption, the welfare of The Metropolitan Government of Nashville and Davidson County requiring it.

### Analysis

This resolution authorizes the Metropolitan Department of Water and Sewerage Services ("MWS") to enter into a recycling technology pilot program with Sensoneo and also accepts a donation for hardware integration, temporary licensing, and services associated with the program.

Sensoneo has developed WasteVision AI, which is artificial intelligence and machine learning technology that leverages existing on-truck camera technology to automatically identify contamination in residential curbside carts and tie the contamination to the residence of origin for use in direct resident education about correct recycling.

The pilot program will consist of two WasteVision AI licenses and related technology for use by MWS for a period of 90 days at no cost. The value of this technology is \$2,500 per truck in hardware and installation and

\$1,495 per truck per month for licensing. The total estimated value of this program is \$14,000.

*Fiscal Note: Metro would receive a donation valued at \$14,000 from Sensoneo for the recycling technology pilot program. The cost of hardware and installation is valued at \$2,500 per truck and the WasteVision AI (WVAI) license is valued at \$1,495/month per truck.*