

Electronics Recycling Workshop



- ▶ Jerry Peck, Illinois Manufacturers' Association, Director of Government Affairs
- ▶ James Jennings, IL EPA, Manager, Waste Reduction and Compliance Section
- ▶ Walter Willis, SWALCO, Executive Director

Presented at ILCSWMA Conference, October 27, 2017



Topics to be Covered

- Overview of the legislative process
- Key implementation dates under the new law
- Roles and responsibilities
 - Manufacturer
 - IEPA
 - Collector
 - Recycler
- Panel Discussion, Collection Models Currently Used in IL



Legislative Process

- ▶ With enactment of PA 99-0013 (HB 1455) in 2015, stakeholders recognized need for long term fix
- ▶ In last 2 years separate bill drafts prepared by IL PSC and IMA
- ▶ Negotiations culminate in two bills being passed this year and signed into law
 - ▶ SB 1417 (PA 100-0433)
 - ▶ HB 1955 (PA 100-0362), trailer bill



Legislative Process

- Bi-partisan leadership of Senator Althoff and Representative McAsey key to passage
- Eventually an agreed upon bill among the stakeholders
- Final votes
 - SB 1417: 49-0 in Senate, 80-23 in House
 - HB 1955: 54-0 in Senate, 106-5 in House



Legislative Process

- ▶ Bill being proposed by CTA (SB 1741), possibly for this veto session or next legislative session, addresses:
 - ▶ Need for antitrust protection for the clearinghouse
 - ▶ Allocation of costs among the manufacturers, thereby avoiding rulemaking process in current law
 - ▶ SWALCO has asked for inclusion of drop-off recycling option in Section 1-10(d), in addition to curbside programs offered by haulers being included in the State program



Key Implementation Dates

- ▶ October 1, 2017 – The Advisory Financial Responsibility Allocation Task Force submits a rulemaking proposal to the IL Pollution Control Board
- ▶ December 1, 2017 – Manufacturer e-waste program (i.e. clearinghouse) makes opt in instructions available on its website (IEPA links to it) to county recycling coordinators and MJAAAs (annually thereafter)
- ▶ March 1, 2018 – Counties must file written notice with manufacturer e-waste program and IEPA, and propose list of collection locations/one day events (annually thereafter)



Key Implementation Dates

- ▶ April 1, 2018 – Manufacturers selling CEDs in IL must register with IEPA (annually thereafter)
- ▶ July 1, 2018 – OEM clearinghouse submits its statewide e-waste program plan to IEPA for approval (annually thereafter)
 - ▶ IEPA has 60 days to approve or disapprove plan, if disapproved, revised plan must be resubmitted within 30 days
- ▶ July 1, 2018 – Deadline for IL Pollution Control Board to adopt rules regarding the allocation of financial responsibility among manufacturers



Key Implementation Dates

- ▶ November 1, 2018 – Advisory Electronics Recycling Task Force submits report to IEPA, for posting on its website, containing a list of agreed upon best practices for collection sites (annually thereafter)
- ▶ January 1, 2019:
 - ▶ New law takes affect
 - ▶ Recyclers must register with IEPA (annually thereafter)
 - ▶ Collectors must register with IEPA (annually thereafter)
- ▶ March 1, 2020 – Data on previous program year due from collectors (report to IEPA and clearinghouse) and manufacturers (report to IEPA) (annually thereafter)



Role and Responsibilities - Manufacturers

- ▶ Register annually with IEPA and either join the clearinghouse or run unilateral statewide program
 - ▶ Administer clearinghouse
- ▶ Develop statewide plan based on counties opting in, and implement convenience standard
- ▶ Assume financial responsibility for implementing e-waste program, including costs for packaging materials, bulk transportation and recycling
- ▶ Audit collection sites
- ▶ Submit annual report on program year collection data



Role and Responsibilities - IEPA

- Overall enforcement of the law's provisions
- Administer registration of manufacturers, recyclers and collectors
- Annually review and approve/disapprove e-waste program plan submitted by manufacturers
- Post instructions on how to opt into program on website, instructions developed by manufacturers
- Collect, collate and track annual program data
- Assist with calculations on cost allocation for clearinghouse



Role and Responsibilities - Collectors

- ▶ Work with county recycling coordinators to provide sites or one day events (can include local government, NGOs, private sector such as haulers or scrap yards, Goodwill, retailers, etc.)
- ▶ Register annually with IEPA
- ▶ Provide the sorting and loading of CEDs per the state law or face pro rata transportation charge from recycler
 - ▶ May charge for monitors and TVs to cover cost of sorting and loading the CEDs
- ▶ Submit annual report on program year data



Role and Responsibilities - Recyclers

- ▶ Provide the key function of recycling the recovered CEDs, will likely continue to have direct contracts with manufacturers that cover costs of transportation and recycling
- ▶ Register annually with IEPA and certify compliance with 13 provisions in the law (labor law compliance, health and safety training, insurance, use of proper equipment, etc.)
- ▶ Provide key collection data used by manufacturers and collectors to comply with annual reporting requirements
- ▶ Assume key role with collectors to improve best practices at collection sites



Questions

- ▶ Jerry Peck – jpeck@ima-net.org
- ▶ James Jennings – james.m.jennings@illinois.gov
- ▶ Walter Willis – wwillis@Swalco.org

Electronics Program Panel Discussion Counties with Permanent Electronics Programs

- Kerri Gale, Jackson County
- Peter Adrian, SWALCO (Lake County)
- Marta Keane, Will County
- Jennifer Jarland, Kane County
- Adam Jaquet, Eagle Enterprises Recycling



ILCSWMA Annual Conference, October 27, 2017

Jackson County

Model: government pay model using third party vendor
(local recycling center) to act as collector
(Recycler: Dynamic)



Program Basics

- ▶ Permanent Government Sponsored Program that has been active since 2002
- ▶ Open 6 days per week
- ▶ Open to all residents in Jackson County and surrounding counties
- ▶ Jackson County contracts with Southern Recycling Center to serve as a local collection point.
- ▶ We have educated residents with flyers at the collection point, through newspaper ads, and social media.
- ▶ We partnered with 7 counties and applied for the IEPA education grant to have a logo developed to use throughout the seven counties.



E-CYCLE
GIVING OLD TECHNOLOGY NEW LIFE



E-CYCLE
GIVING OLD TECHNOLOGY NEW LIFE



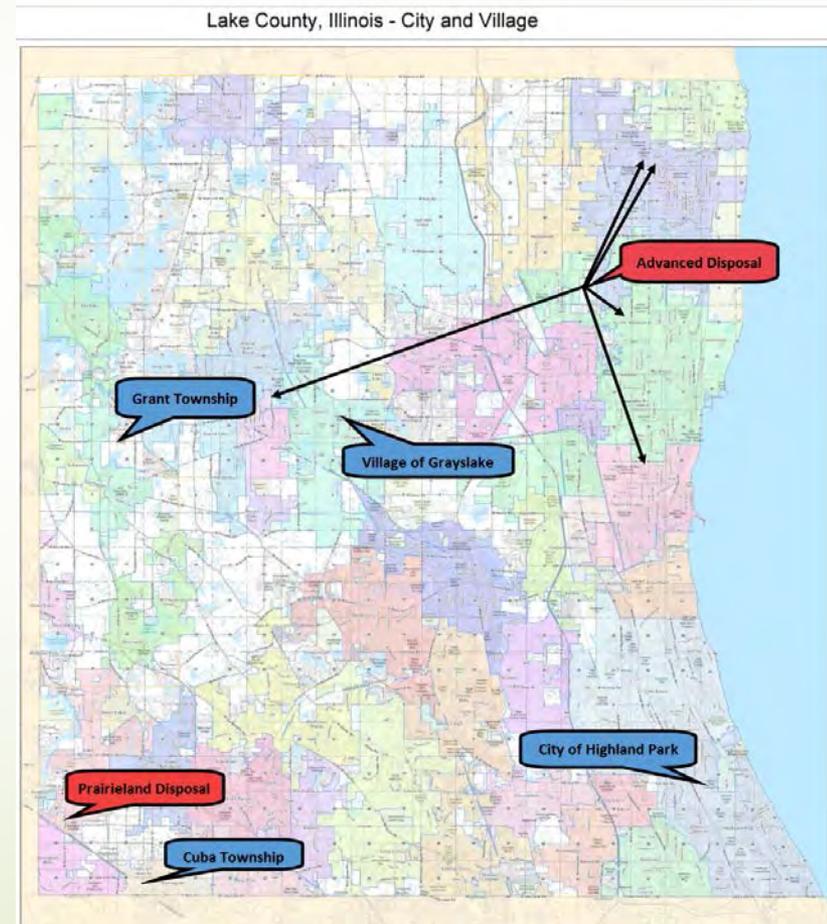
Collection Site

- ▶ Currently Jackson County recycles approximately 650,000 pounds annually.
 - ▶ Jackson County sends 3 loads per month at 20,000 pounds a load.
 - ▶ Residents can only drop-off 10 items per visit per month.
 - ▶ No charge to residents to drop-off material
 - ▶ We only accept items on the IEPA banned items list.
 - ▶ Approximately 65% of the stream accepted are TVs
- 

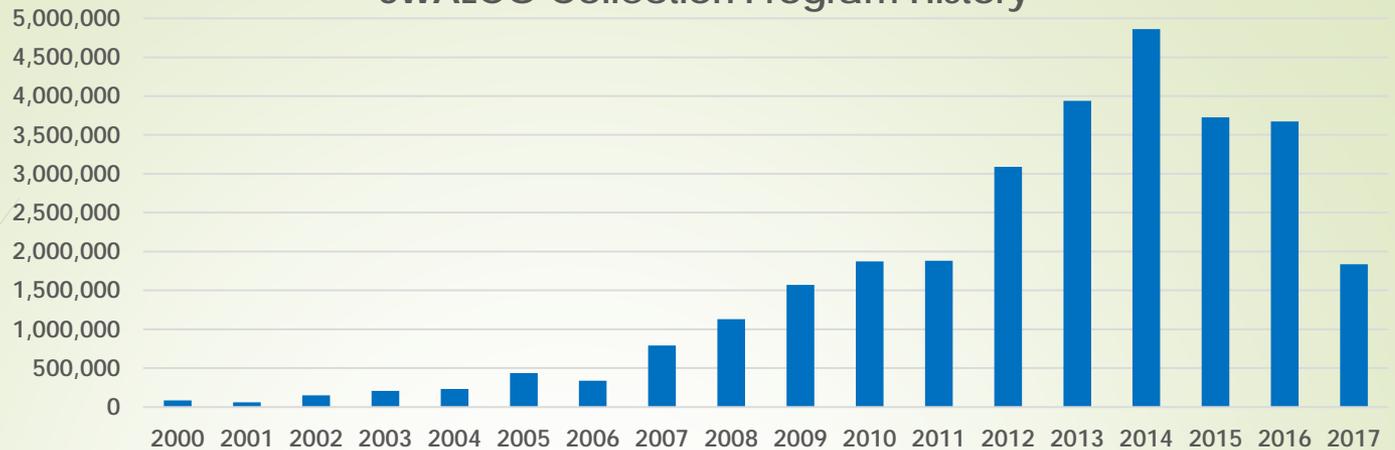
Lake County (SWALCO)

**Model: Manufacture funded transportation and processing with local government hosting drop off sites and loading trailers, supplemented by haulers offering curbside pickup and municipal roll off services.
(Recycler: ERI & Vintage Tech).**

- **Began collecting electronics in 2000.**
- **Estimated 30,000,000 Lbs. by end of 2017.**
- **Drop Off locations staffing, facilities and equipment are provided in-kind by the host sites. Cost per trailer averaged \$900**
- **A second tier of service is being provided by haulers who are offering curbside pickup as part of contractual service.**
- **SWALCO currently supports two haulers who are providing their customers with a municipal drop off program.**



SWALCO Collection Program History



- **In 2014, had 41 collection sites. Collected 4,861,459 Lbs. (6.9 Lbs. per capita).**
- **In 2015 reduced down to 7 collection sites. 3,725, 231 Lbs. (5.3 Lbs. per capita).**
- **Today we have 4 permeant public drop off locations and two hauler collection partners. Estimated volume to be collected in 2017 is 3,500,000 Lbs. (5.0 Lbs. per capita).**
- **SWALCO also partners with eWorks to administer a Business Concierges program, offering both at the door pickup and community drop off events. Fees apply for CRT's.**

Lake County (SWALCO)

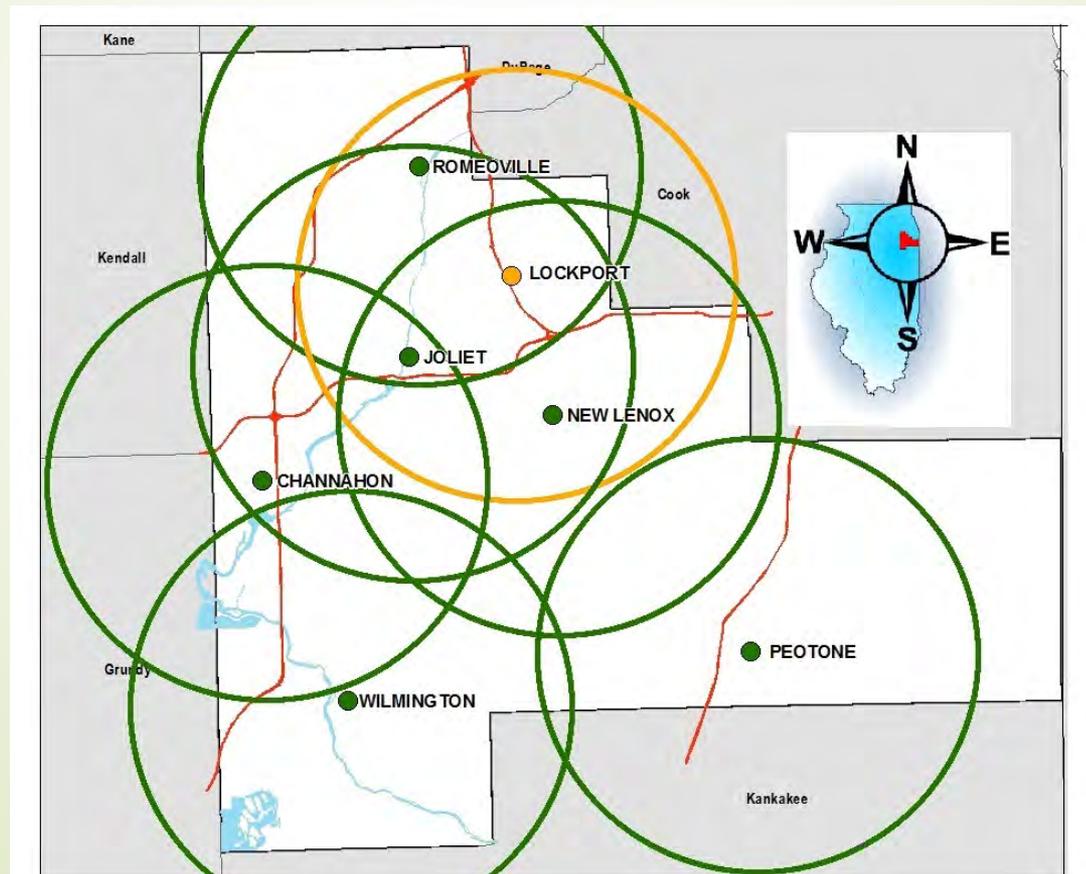


Lake County (SWALCO)



Will County

Model: Manufacturer Funded with Government pay Model utilizing a third party company to load and sort trailers, using government sites, urban model (Third party: A-Team Recyclers, Manufacturer Funded Recycler: ERI)



Will County

Will County bid manufacturer funded electronic recycling services. Awarded contract to ERI in Plainfield, Indiana. Fees for underweight trailers, microwaves, other non-banned items 2016 (May to Dec): \$11,300 vs 2017 (Jan to Sept): \$2,200

Will County entered an Intergovernmental Agreement with the City of Lockport to be a permanent electronic drop-off site. Public Works staff take telephone calls, load ERI truck. (no sorting work) Fee for time and equipment \$6,000 annually



In 2016 hired part-time employees (above), switched to professionals in 2017 (right) to save on freight penalty fees.



Will County

Will County bid third-party professional recycling services for:

- Checking IDs & Limiting Material – 2 TVs per vehicle
- Unloading vehicles
- Sorting materials per ERI instruction
- Palletizing and shrink-wrapping materials
- Host an ERI trailer at their facility
- Load materials into ERI trucks except Lockport

Awarded to A-Team Recyclers in Shorewood, Illinois

Two Agreements: One Day Events, Mobile Collections



Will County

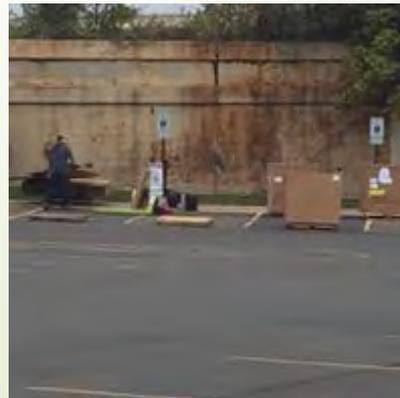
Mobile Collections:

- Intergovernmental Agreement with local governments
- Twice a month 5pm-7pm
- Village of Romeoville Public Works – 1st & 3rd Tuesdays
- City of Joliet/Will County Parking Lot – 2nd & 4th Tuesdays
- Village of Peotone Police Parking Lot – 1st & 3rd Wednesdays
- New Lenox Township – 2nd & 4th Wednesdays
- Channahon Township & a Church - 1st & 3rd Thursdays
- City of Wilmington - 2nd & 4th Thursdays

Averages vary:

10,000 lbs per two-hour turn-key collection – densely populated

5,000 lbs – rural communities





Will County

One-Day Events:

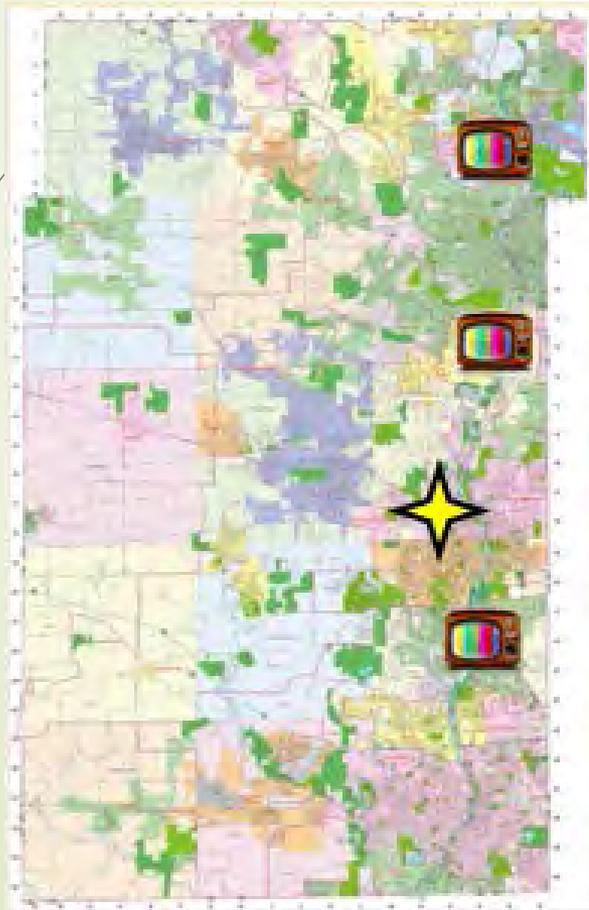
Will County pairs some Electronics Collections with HHW Events

In 2017 Will County offered 5 Saturday Collection Events (4 with HHW)

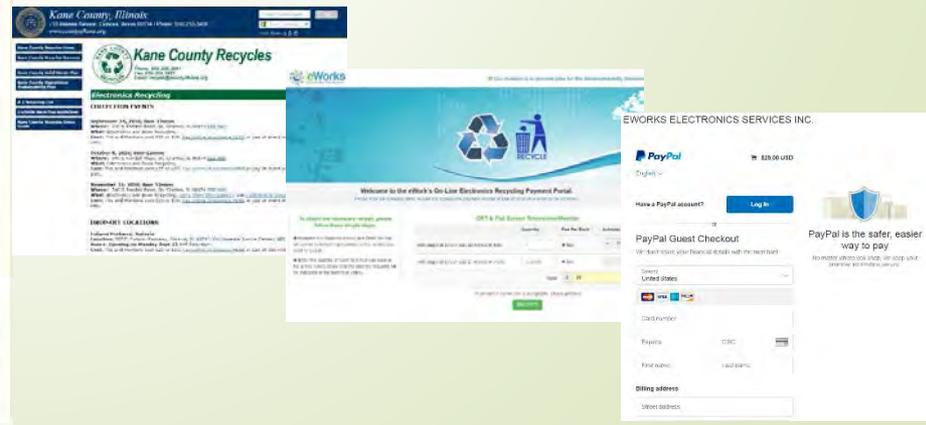


Kane County

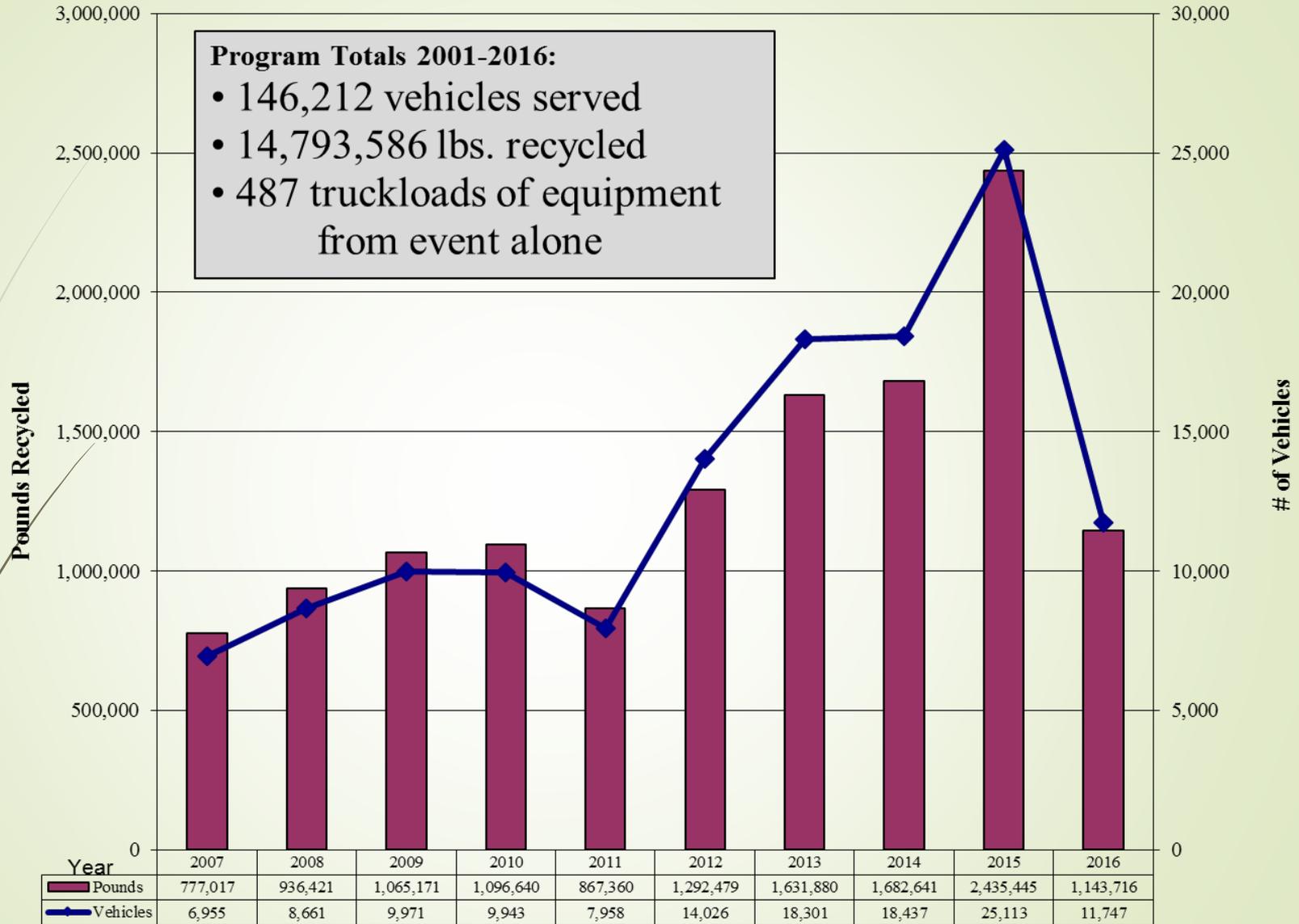
Model: County government teaming with Recycler to run sites on government property with direct charge to residents for TVs and monitors (Recycler: eWorks Recycling Services)



\$25 fee for screens under 21 inches
\$35 fee for screens 21 inches and over

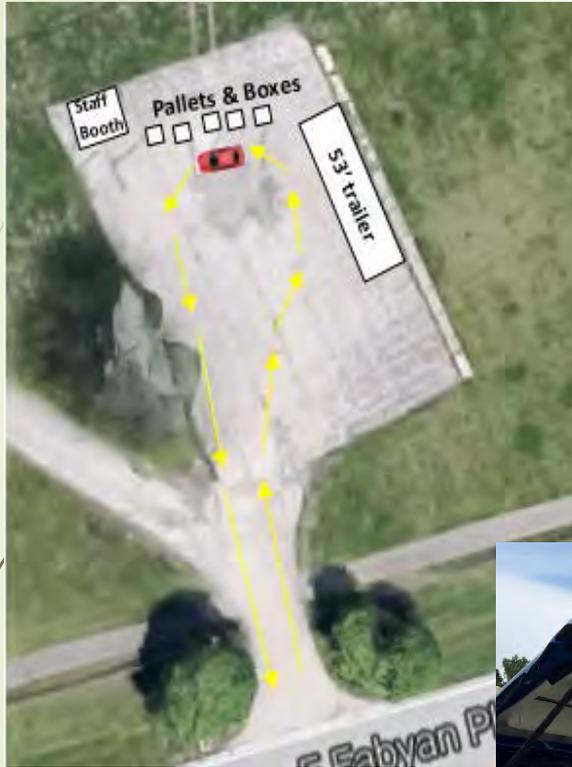


Kane County Electronics Recycling Program



2017 563,000 lbs. as of July 1st (will hit 1,000,000 this year)

Fabyan Parkway Batavia



2017
4500 visitors to date
267,000 lbs. as of Jul 1
60% of drop-off volume



South Elgin



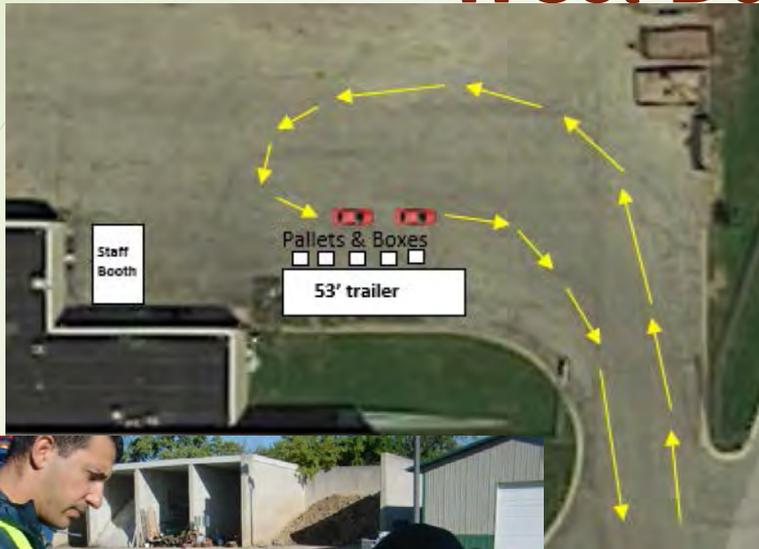
2017

1450 visitors to date

75,000 lbs. as of Jul 1

20% of drop-off volume

West Dundee



2017
1720 visitors to date
80,000 lbs. as of Jul 1
20% of drop-off volume

Eagle Enterprises Recycling, Inc.

Model: Crazy Private Hauler who loses money doing E-waste because they care about the area and there's no other options. (Recyclers: Dynamic (Residential) and Kuusakoski (Business))

Pros

- Not reliant on support of local government or revenue (except for Housing Authority, and dumped units)
- Able to serve multiple counties in the rural area
- Combined with curbside recycling programs
- Serve residents and businesses
- Spot education when people walk in the door
- Under EPRRA-underserved counties protected our program

Cons

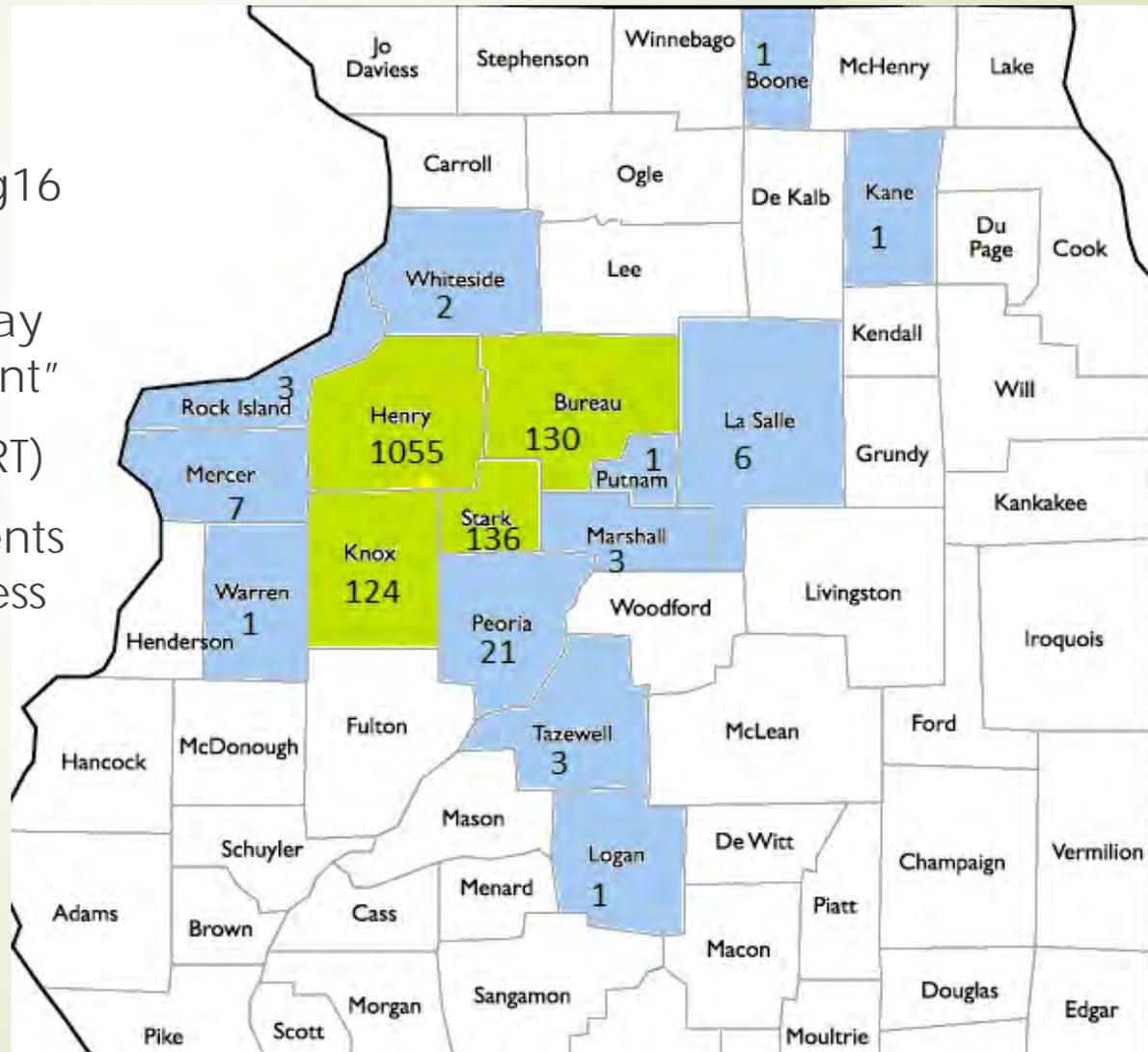
- No financial backing to cover costs of operation
- Lost time of employees on other work-takes one person over a week's time to stack a full semi load
- Storage space requirements-just received and stacked for shipping.
- Constant interruption people dropping off and phone calls (50-70% of all calls related to e-waste)
- No education has been done by retail or local government beyond "take it to EE" and explain it is more than TV's.
- Illogical list of banned items (DVD-yes, CD-no, etc.)

Curbside Electronics Collection by Eagle Enterprises Recycling, Inc.

- ▶ Inspired by program offered by Vintage Tech and Will Co.
- ▶ Cost per household built in as part of cost of curbside recycling
- ▶ Once per month service, to address by request
- ▶ Request a detailed list of what resident will have to make sure a large enough truck, but not excessive.
- ▶ Request items not at curb, but up closer to house to discourage scrapping and vandalism
- ▶ Usually done on curbside recycling day so the route driver can help with very large items, if necessary (depending on total number of stops and items on the list)
- ▶ Coupled with monthly cart exchanges and deliveries
- ▶ About 1% use each month
- ▶ 2 communities currently, with options for more.

Rural Need – 2016 Figures

- Received from 1,495 households representing 16 counties
- Municipality 45 mile away calls us "Most Convenient"
- 234,907 pounds (76% CRT)
- Largest portion of residents come from 15 miles or less (Galva and Kewanee).



Serving Residents and Business



- Every Customer through the door asked where e-waste is coming from
- If not a resident from their own home, material is weighed, charged, and marked as BUS, and then sorted separately.
- All BUS material sent to Kuusakoski, and EE pays from fees charged.





Questions

- ▶ Kerri Gale – kerrig@jchdonline.org
 - ▶ Peter Adrian – padrian@swalco.org
 - ▶ Marta Keane – mkeane@willcountygreen.com
 - ▶ Jennifer Jarland – recycle@countyofkane.org
 - ▶ Adam Jaquet – adamj@eerecycling.com
- 