

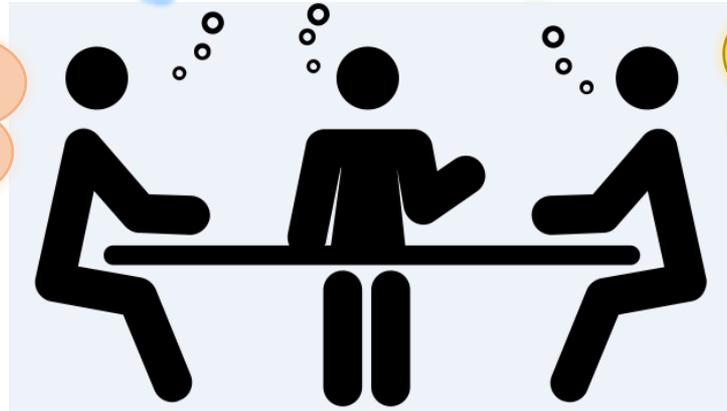
# Waste & Recycling Policy Considerations...

How do service levels impact the cost to residents?

What are the financial and environmental impacts?

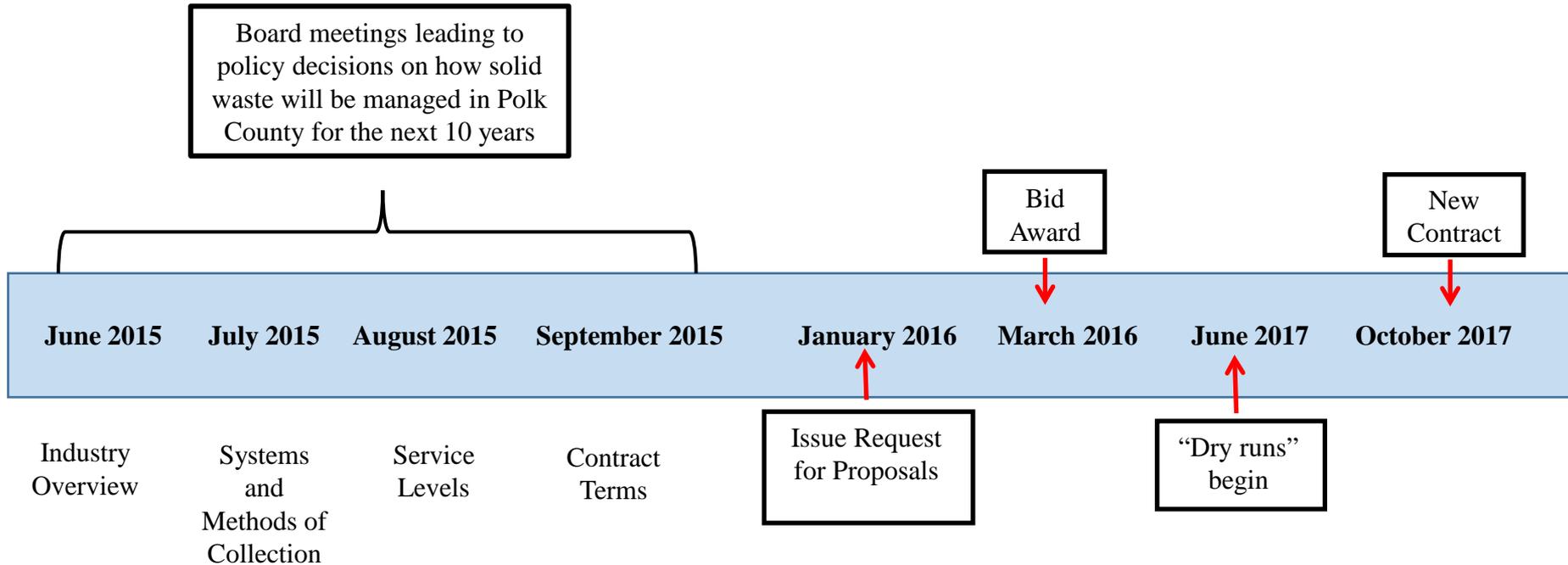
What are the waste processing options?

Are County assets being optimized?



How do all of these considerations impact the collection process?

# Projected Timeline 2017 Residential Collection Services



## A Welcome Whinny: Horse-Drawn Trash Collection Expands in Vermont

Elizabeth McGowan

Apr 24, 2015



EMAIL

TWEET



g+1

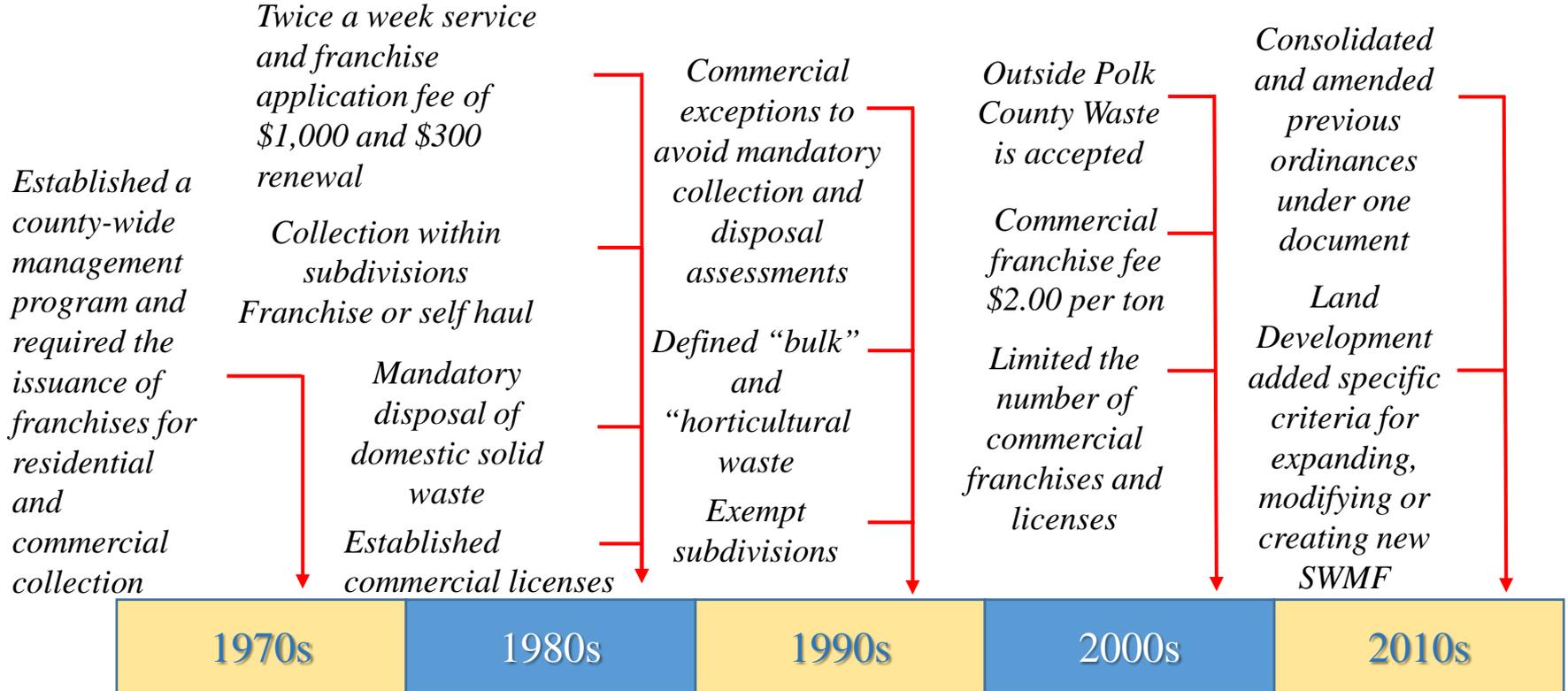
COMMENTS 0



Patrick Palmer has collected trash with his horse-drawn wagon in Bristol, Vt., since 1998. Here, his part-time assistant Linda Malzac helps with rounds earlier this month.

Photo courtesy of Patrick Palmer

# Polk County Ordinance Highlights - Past 40 Years



*Florida Statute 403.70605*

# Current Non – Ad Valorem Fee Assessment Allocation



Collection

\$109.80  
(71%)

Disposal/Processing

\$44  
(29%)

Cost to resident

\$153.80

# Residents pay for three weekly services



**Household  
Garbage**

**Routine Yard  
Trash**

**Recycling**

# Residents are not paying for...



**Land clearing debris  
(stumps, trunks and logs)**

**Construction and Demolition  
debris**



# Collection Methods and Systems

## Collection Methods

- Residential
  - Manual
  - Semi-automated
  - **Automated**
- Commercial
  - Stationary container (front-end dumpster)
  - Hauled container (roll-off box)

## Collection Systems

(utilizing one of the identified methods)

- Residential
  - Public versus **private**
  - Container type
  - Number of containers
  - Collection frequency
  - Fee structure
- Commercial
  - Public versus private
  - Subscription arrangement
  - Open market versus franchise

*Bolded text represents current practice*

# Residential Collection Options

- Waste collection provider
  - Private contractor ← *Current County Practice*
  - Public fleet
- Container Systems
  - Single container system
  - Multi-container system ← *Current County Practice*
- Collection structure
  - Franchise collection county wide ← *Current County Practice*
  - Franchise collection by zone

# Commercial Collection Options

- Waste collection provider
  - Private contractor(s) ← *Current County Practice*
  - Public fleet
  
- Commercial collection structure
  - Open market ← *Current County Practice*
  - Franchise collection county wide
  - Franchise collection by zone

# Considerations: Residential collection provider

## Private contractor

- Pros
  - Experience
  - Convenience
- Cons
  - Less transparency in cost accounting
  - Higher cost over time – CPI & other provisions
  - Less quality control
  - Additional layer between County and customer
  - Dependency on the contractor
  - Contract management – requires oversight and monitoring

## Public fleet

- Pros
  - Not for profit
  - Vertical integration
  - More transparent cost accounting
  - Better quality control
  - Responsiveness
  - Cost effective in the long run
- Cons
  - Limits local business
  - Perception of “bigger government”
  - Perception of inefficiencies
  - Less agile to respond to market conditions

# Considerations: Commercial Collection Structure

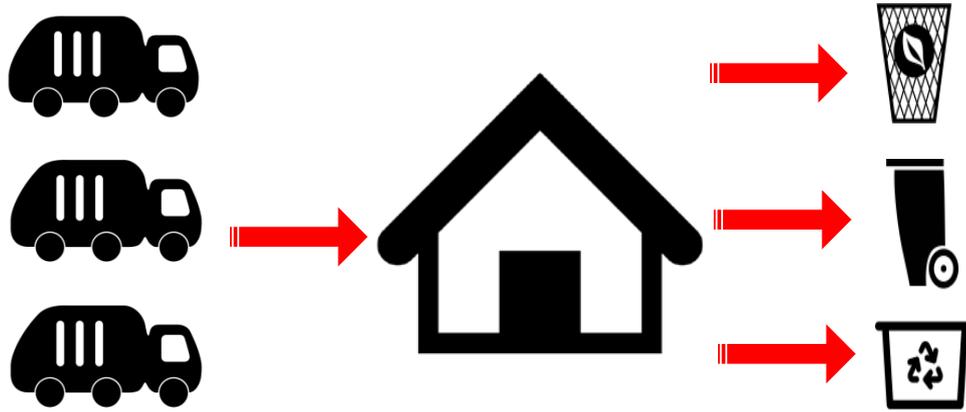
## Open market

- Pros
  - More competition
- Cons
  - Potential for undesirable operating practices
  - Limited service level standards
  - Less service level transparency

## Franchise collection

- Pros
  - Stable rates for customers
  - Service level transparency
  - Provide minimum standards for collection
  - Vertical integration
- Cons
  - Limited number of service providers

# Considerations: Current residential container system



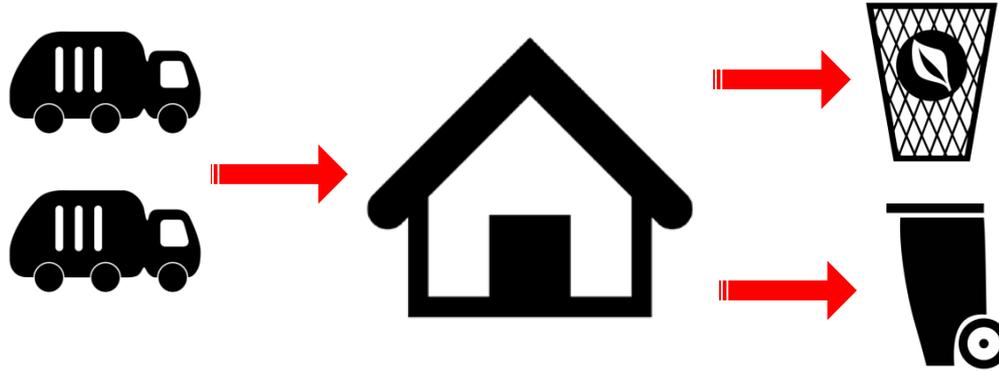
## Pros

- Follows traditional methods of curbside collections
- Separates materials at the source

## Cons

- Higher collection cost
- Less responsive to change
- More trucks on the roads
- Higher environmental impact
- Increased potential for customer service issues

# Considerations: Residential container system



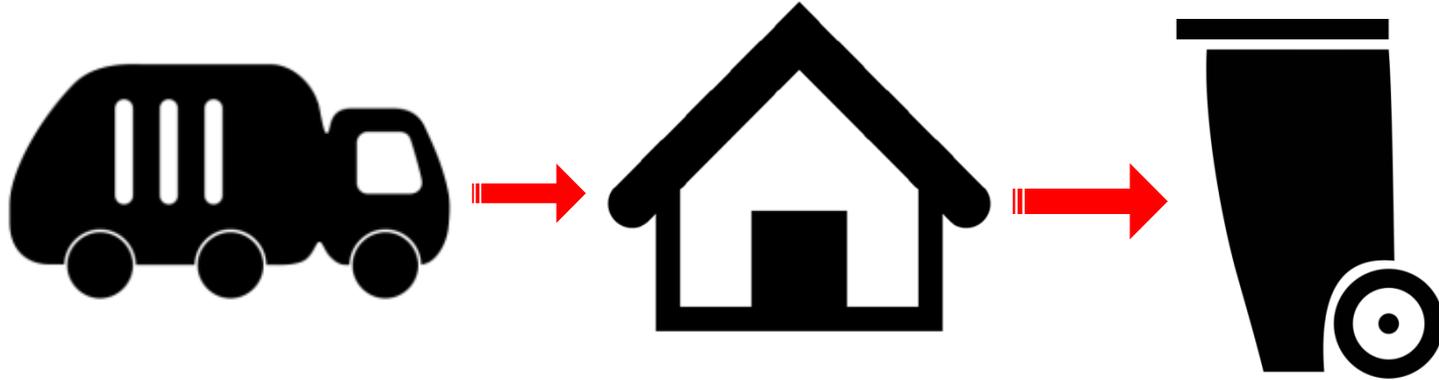
## Pros

- Convenience to residents
- Collection cost
- Less trucks on the roads
- Lower environmental impacts
- Reduced potential for customer service issues

## Cons

- Requires additional handling of materials collected if harvesting materials for recycling or other beneficial uses

# Considerations: Residential container system



## Pros

- Convenience to residents
- Collection cost
- Fewest trucks on the roads
- Lower environmental impacts
- Lowest potential for customer service issues

## Cons

- Requires additional handling of materials collected if harvesting materials for recycling or other beneficial uses



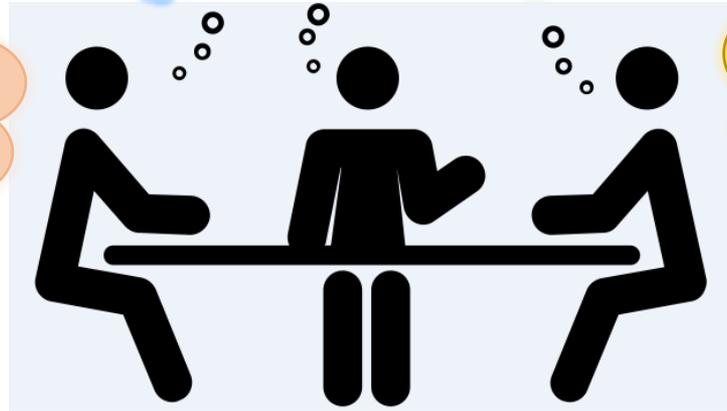
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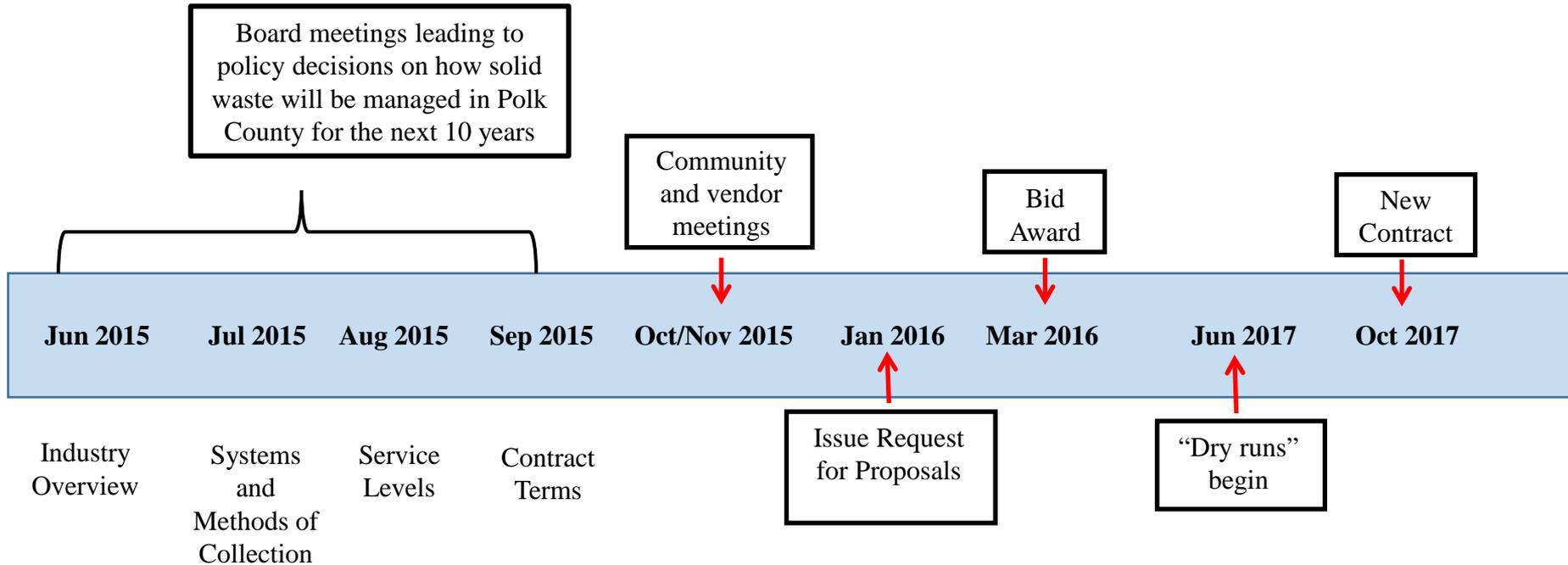
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# End Notes

- EPA SMM Web Academy “The Changing Waste Stream” November 2014
- “Inside the Garbage of the World Documentary” January 25, 2014
- EPA “Sources of Greenhouse Gas Emission”
- National Waste & Recycling “Recycling More vs. Recycling Right” video
- “Revolutionary Material Recovery Facility Underway in Montgomery” Montgomery, Alabama
- City of Houston “One Bin for All” system
- Florida Department of Environmental Protection Annual Reports
- “Junkyard Planet” Adam Minter, First U.S. Edition 2013
- “China’s Green Fence” Waste 360, October 2013
- University of Wisconsin, Global Symposium 2010
- University of Florida, Dr. Tim Townsend
- Jones Edmunds and Associates
- Thenounproject.com: Garbage Truck png (Heitor Varvaki Prazeres); Brainstorm png (Jessica Lock); House png (Simple Icons); Green Trash png (Justin Blake); Trash Can png (Randall Barriga); Recycling bin png (Garrett Knoll)
- Swedish Technology of waste management for a sustainable urban development “Pneumatic Waste Collection System”