



London  
CANADA

An aerial photograph of London, Ontario, showing a mix of green trees in the foreground and a city skyline with various skyscrapers in the background under a clear blue sky. The word "LONDON" is written across the middle of the image in large, white, semi-transparent capital letters.

LONDON

# Road Map 2.0 – The Road to Increased Resource Recovery and Zero Waste

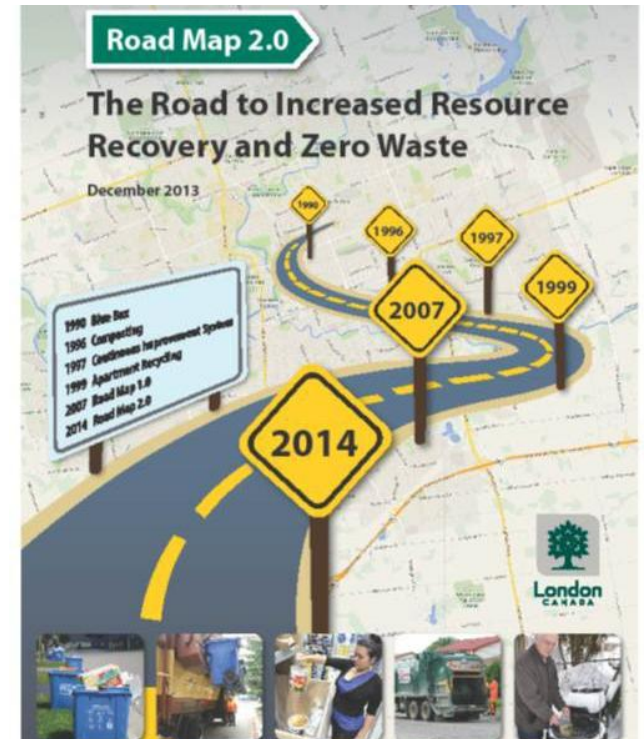
**Advisory Committee on the Environment**

February 5, 2014



# Road Map 2.0 – Major Goals

1. Celebrate achievements
2. Present logical initiatives and timeframes
3. Balance:
  - Create economic benefits and jobs
  - Minimize costs
  - Meet expectations of taxpayers
  - Demonstrate environmental benefit
4. Engage the Community – 4+ months







# How far have we come since Road Map 1.0, 2007?

- 23 (~90%) of measures in place
- 2 (~10%) of measures in progress
- 44% waste diverted (2012)
  - 50% curbside
  - 17% multi-residential





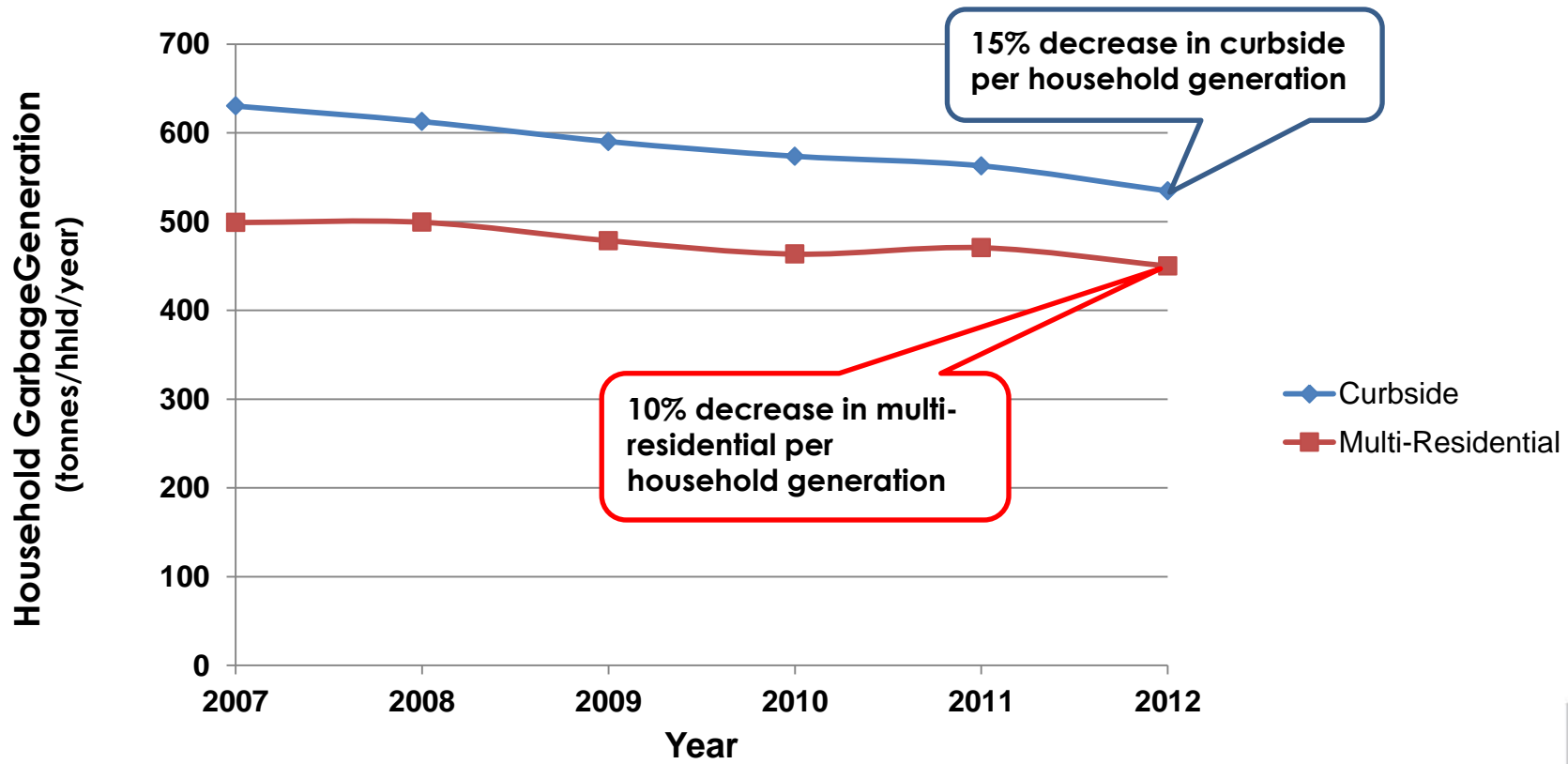
# Road Map 1.0 – 2013 – in Progress

1. North end EnviroDepot
2. Delay Green Bin decision until review of new, emerging & next generation technologies is complete (2014)





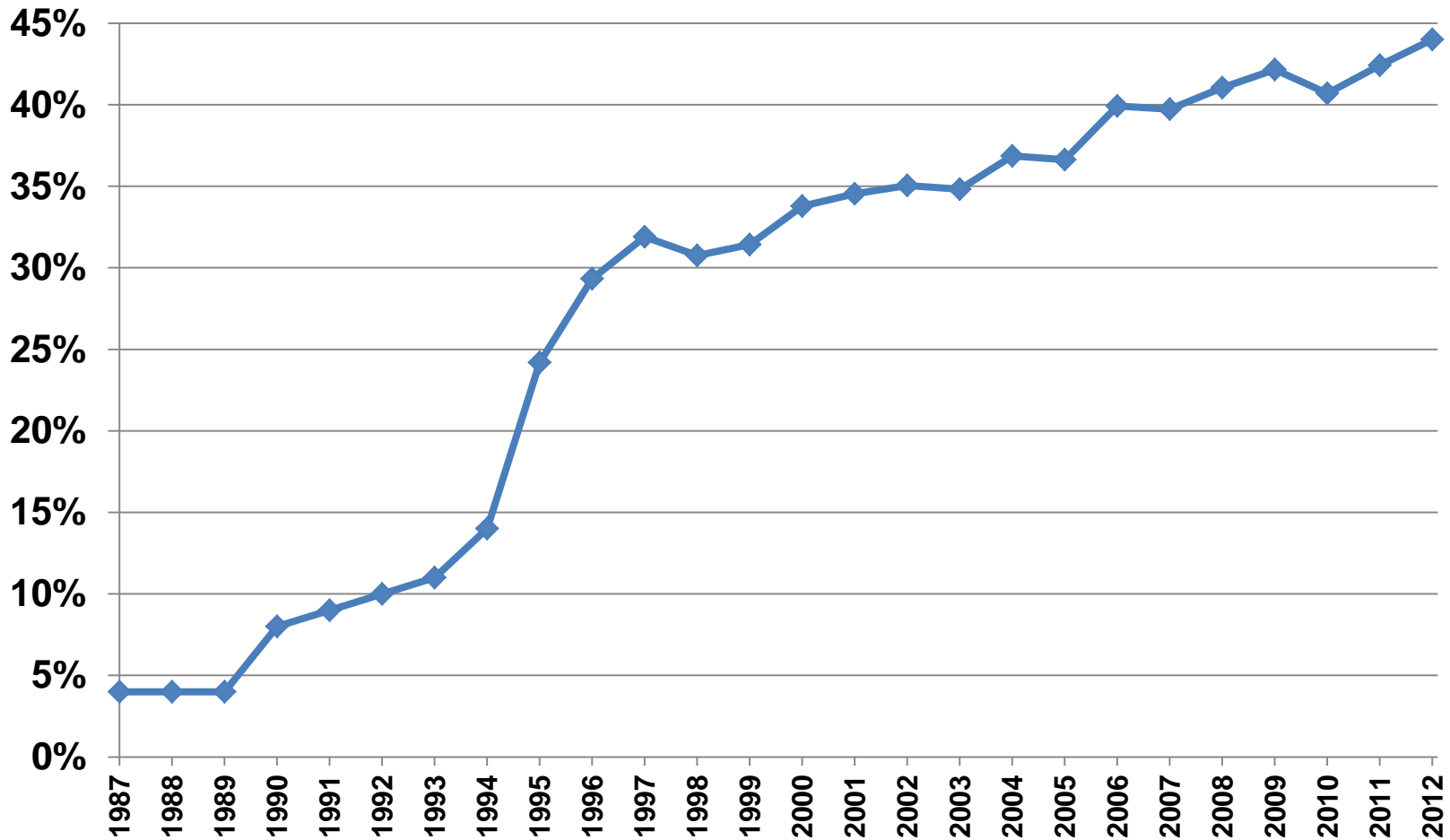
# Garbage Generation from 2007 to 2012







# Waste Diversion Rate: 1987 - 2012





# Diversion Program Highlights

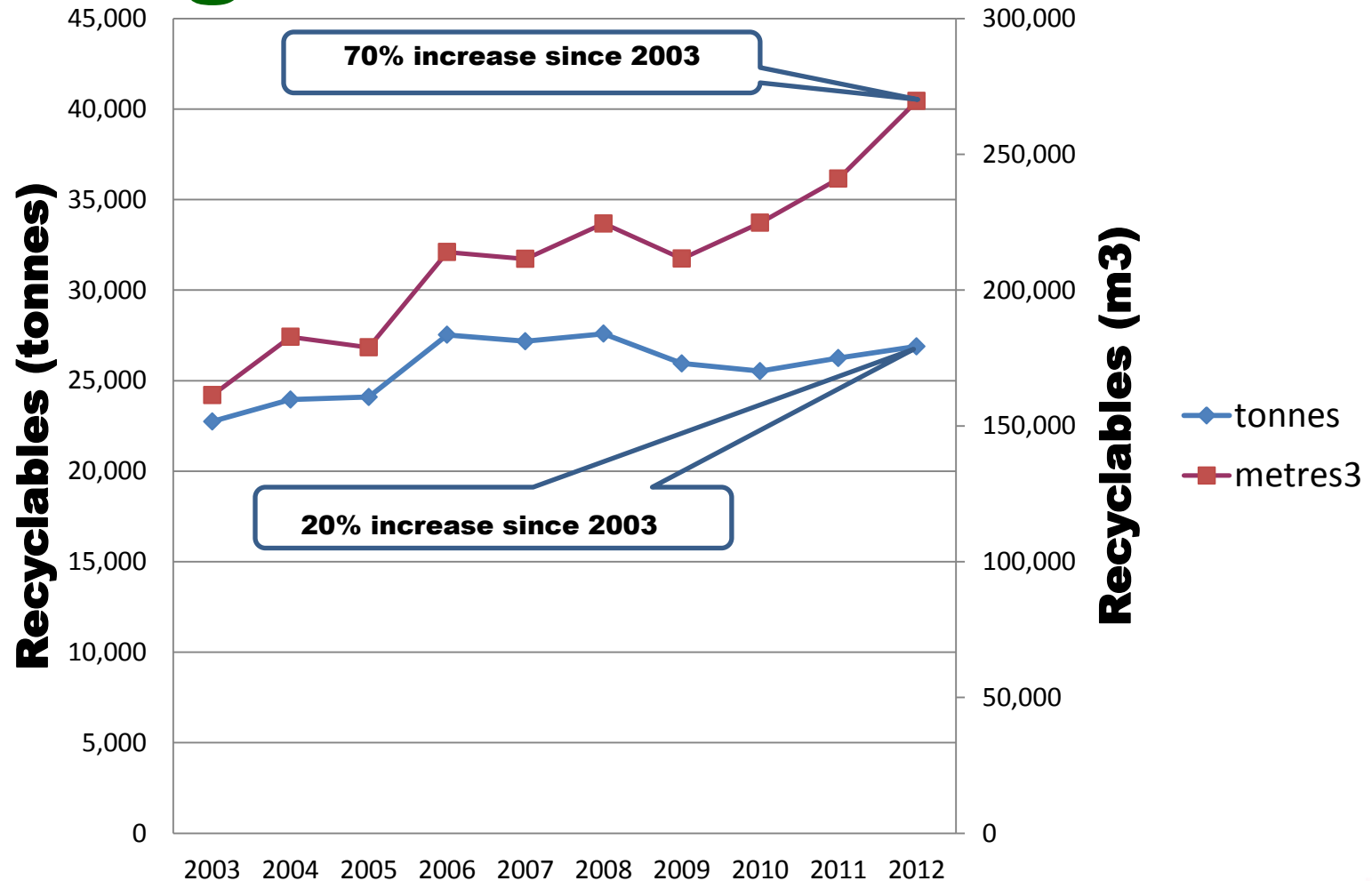
The waste stream is changing:

- Less dense items
- More lightweight materials
- More materials can be recycled





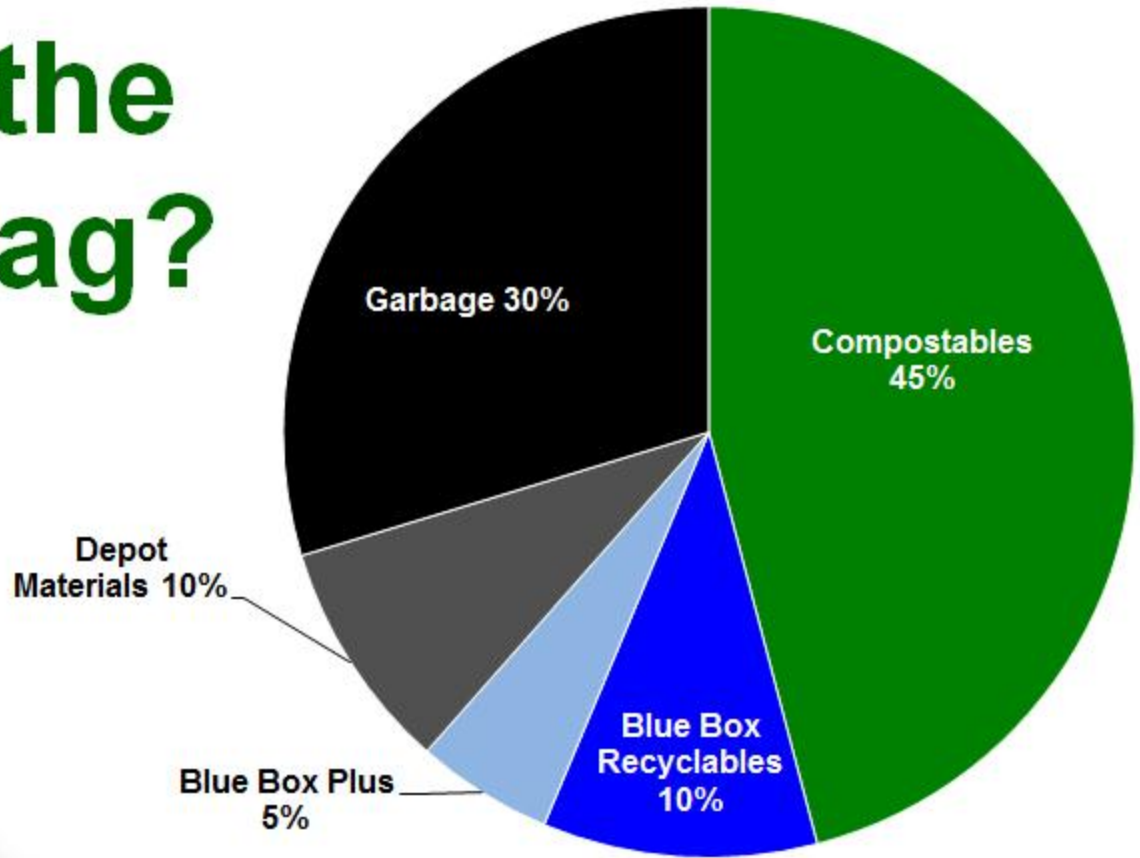
# Changes Over Last Decade







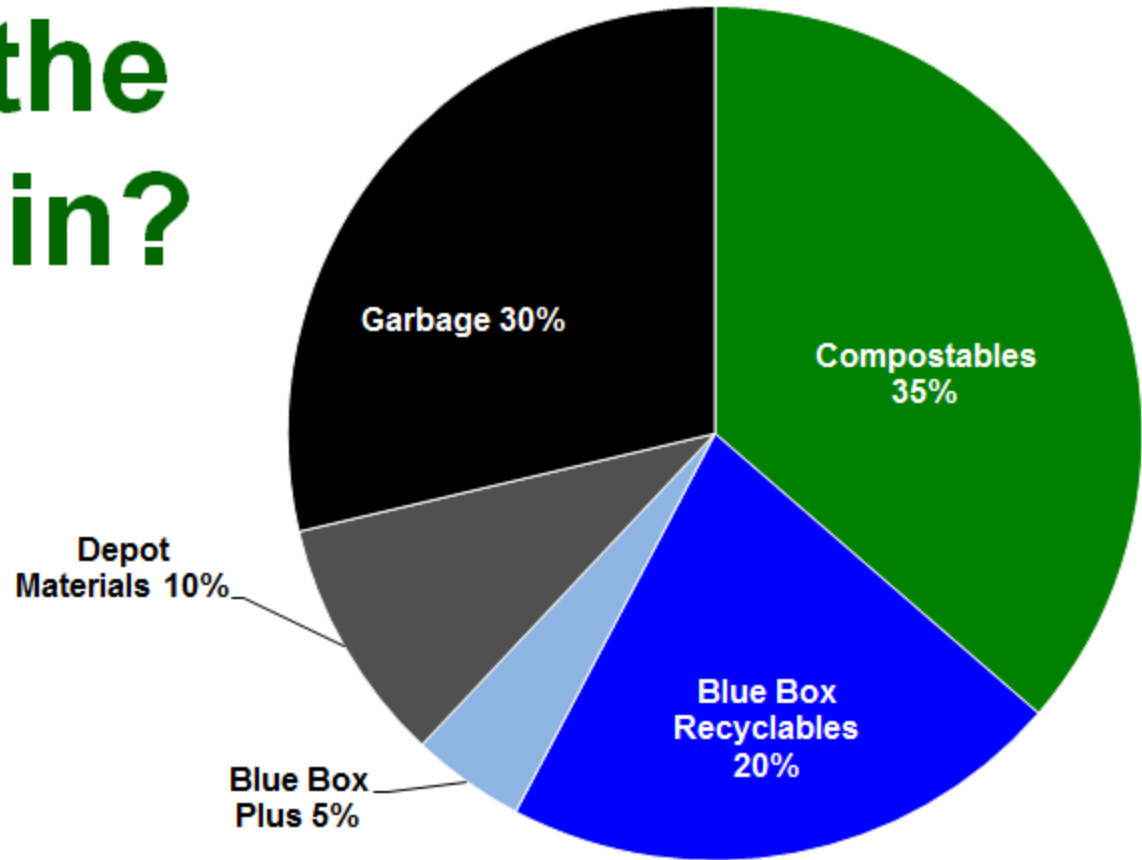
# What's in the Garbage Bag?



- 15% less garbage per household compared to 2007
- fewer recyclables in garbage



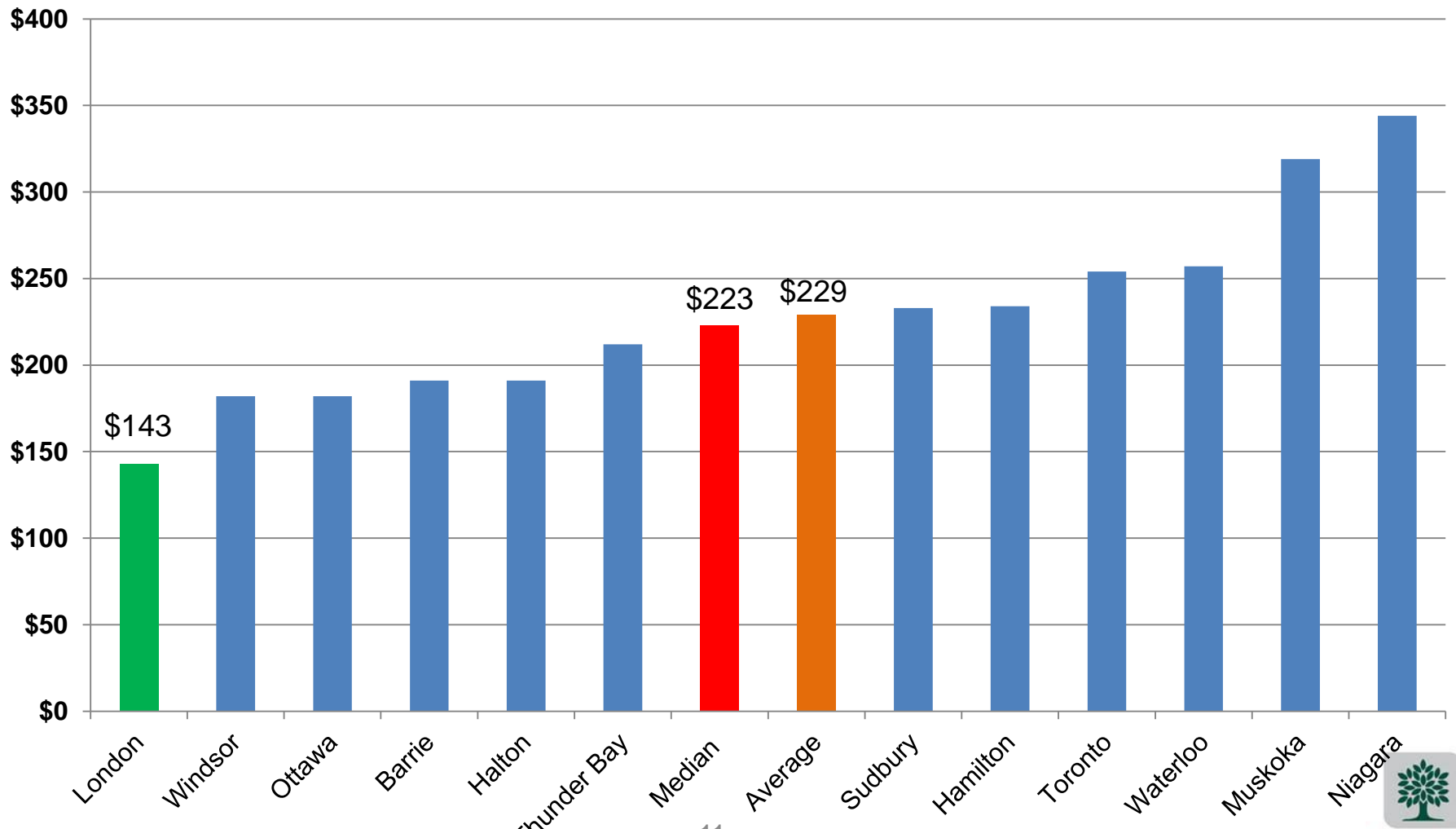
# What's in the Garbage Bin?



- 10% less garbage per household compared to 2007
- fewer recyclables in garbage



# OMBI - Total Solid Waste Cost/Hhld



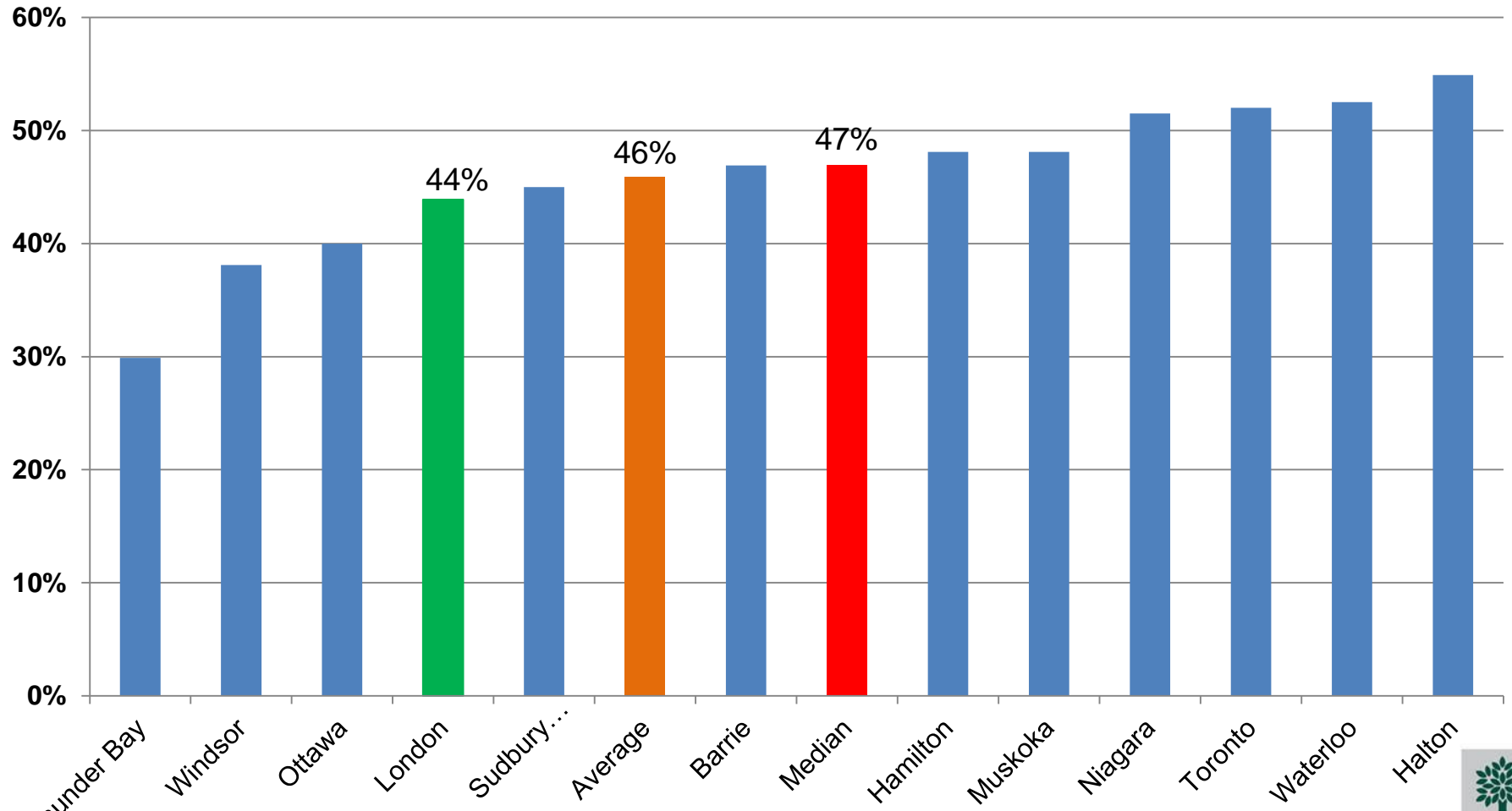
Source: 2012 Ontario Municipal Benchmarking Initiative (OMBI)







# OMBI – Diversion Rate



Source: 2012 Ontario Municipal Benchmarking Initiative (OMBI)





# Moving Forward - Initiatives are Categorized

1. Recycling
2. Organics Management
3. EnviroDepot (Drop-off) Programs
4. Encouraging and Engaging Londoners
5. Other Potential Initiatives



# Road Map 2.0 – Staff Timeframe for Proposed Programs & Initiatives

1. 2013
2. Early Adoption – 2014
3. Further Investigation – 2014 to 2015
4. Further Investigation – 2016 to 2019
5. Delayed – Future Consideration





# Road Map - 2014 Early Adoption

1. 2 Blue Boxes for new homes
2. Cart program for Multi-residential recycling
3. EnviroDepots - add vegetable oil & motor oil





# Road Map 2.0 - 2014 to 2015

## Ten initiatives focused on...

- Increase Blue Box recycling

Recycle  
your  
cardboard  
boxes



- Manage organics



**FOOD**  
**WASTE**  
**REDUCTION**





# 2014 to 2015

... and a few more...

- Incentive programs
- Future Council Policies and Directions
- System Financing – funding options



## GET REWARDED FOR RECYCLING



Activate your account today and start earning rewards.

RecycleBank® [Learn More >](#)





# Road Map 2.0 - 2016 to 2019

## Eight initiatives focused on...

- Multi-material programs
- Encourage and Engagement programs



Thank you for taking the time to sort it right!





# Road Map 2.0 - Delayed

- Difficult/expensive materials to recycle
- Mandatory Recycling Bylaw
- Full user pay





# Description: 4 Waste Diversion Scenarios

**40 – 45%**

**Minor  
Improvements  
(Investment)**

- Optimized & Expanded Recycling
- New Multi-Material Depot

**45 – 50%**

**More  
Improvements  
(Investment)**

- As above +
- Additional recycling improvements
- Requires more effort from residents
- “Personal Responsibility” for organics
- Reduce container limits





# Description: 4 Waste Diversion Scenarios

<p><b>50 – 60%</b> Major Improvements (Investment)</p>	<ul style="list-style-type: none"><li>• All the above +</li><li>• New, emerging &amp; next generation technologies focused on organics</li></ul>
<p><b>60 – 80%</b> Significant Improvements (Investment)</p>	<ul style="list-style-type: none"><li>• Most of the above +</li><li>• New, emerging &amp; next generation technologies focused on residual waste stream</li></ul>



# Social & Environmental Considerations

Generally:

- taxpayers support better use of waste materials
- more jobs are created with higher diversion
- lower energy use and greenhouse gas generation occurs with higher diversion
- other environmental/societal benefits occur



Cost, affordability, taxation, timing . . . have huge influence on what people think





# Financial Considerations

Diversion Level	Estimated New Annual Cost Range to Achieve Level	At the Household Level
<p><b>40 – 45%</b> Minor Improvements (Investment)</p>	<p><b>\$60,000</b> to <b>\$120,000</b></p>	<p><b>Additional Cost/Hhld = \$0.35 to \$0.70</b> <b>Total System Cost/Hhld = \$30 to \$31</b></p>
<p><b>45 – 50%</b> More Improvements (Investment)</p>	<p><b>\$800,000</b> to <b>\$1,000,000</b></p>	<p><b>Additional Cost/Hhld = \$5 to \$6</b> <b>Total System Cost/Hhld = \$35 to \$36</b></p>





# Financial Considerations

Diversion Level	Estimated New Annual Cost Range to Achieve Level	At the Household Level
<p><b>50 – 60%</b> Major Improvements (Investment)</p>	<p><b>\$3,800,000</b> to <b>\$5,000,000</b></p>	<p><b>Additional Cost/Hhld = \$23 to \$29</b> <b>Total System Cost/Hhld = \$53 to \$59</b></p>
<p><b>60 – 80%</b> Significant Improvements (Investment)</p>	<p><b>\$6,000,000</b> to <b>\$10,000,000</b></p>	<p><b>Additional Cost/Hhld = \$35 to \$60</b> <b>Total System Cost/Hhld = \$65 to \$90</b></p>



# What are some of the challenges?

1. Engaging residents/businesses in dialogue
2. Achieving medium to high levels of public acceptance
3. Dealing with other community priorities
4. Obtaining financing for environmental investment
5. Identifying who and when someone pays





# Overcoming the challenges - How can these items be financed?

- Municipal taxes
- Flat rate fees on tax bills
- User fees ('bag tags', variable rates)
- Landfill tipping fees (surcharges)
- Government funding
- Industry funding – extended producer responsibility







# Overcoming the challenges?

Need **MORE**  
Community and  
Business  
Champions . . in  
the area of. . . .  
**Waste Diversion**





# Road Map 2.0 - Feedback

## Public input – Until end of April, 2014

- Social & traditional media
- Targeted information to groups and people
- Website and feedback tools
- Outreach (e.g., TREA, LHBA Home Show)





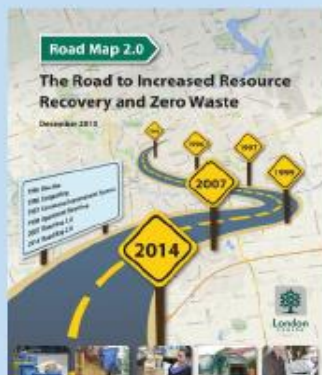


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# HOW to Reduce our Waste



You are invited to provide your opinion on London's draft plan for future recycling, composting (organics) and garbage programs.



## Road Map 2.0: The Road Map to Increased Resource Recovery & Zero Waste

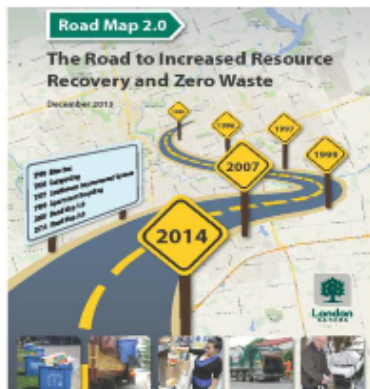
The City of London needs your help to identify how we can further reduce the amount of waste we send to landfill. We have produced a report called *Road Map 2.0: The Road to Increased Resource Recovery & Zero Waste*. This overview of the Report highlights key information we seek your input on.



## Where Have We Been Since 2007? (Road Map)



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# Road Map 2.0 The Road to Increased Resource Recovery and Zero Waste

Solid Waste Management | Friday, January 24, 2014

## We want your input – Here’s how you can get involved

We need to hear from Londoners what their priorities are and how quickly do they want to move with respect to increased recovery and zero waste

initiatives.

**Step 1: Review this Webpage or the Road Map...** Detailed information on potential initiatives can be found in Road Map 2.0, The Road to Increased Resource Recovery and Zero Waste. Thank you for your time and interest.

**Step 2: Understand the Options and Tell Us Your Preferences...** The Road Map provides the information you need to make informed decisions about how much more material can be recycled or composted, the cost of new programs, as well as the environmental benefits. Once you understand the options for London, the next step is to tell us what you prefer and why.

**Step 3: Provide Feedback...** We need to hear back from Londoners. Your feedback will be used to help Council decide which programs are priorities and how quickly they are implemented. [Click here to provide your feedback.](#)

## Background

The City of London’s Waste Management System is based on a Continuous Improvement Strategy (management philosophy) and Sustainable Waste Management. This strategy, which was approved by Municipal Council in 1997, has been the foundation for going forward. It uses an active framework that recognizes integrated waste management as an important environmental service in the community. By effectively allocating financial and human resources, this environmental service contributes to the protection

Road Map 2.0 (Full Version)

Road Map 2.0 Highlights - How to Reduce our Waste

Waste Diversion Cost Scenarios

Road Map 2.0 (without appendices)

Road Map 2.0 Section 1: Introduction

Road Map 2.0 Section 2: Road Map 1.0

Road Map 2.0 Section 3: Planning the Next Trip

Road Map 2.0 Section 4: What’s Next



# Seek Comments on 3 Alternative Recycling & Garbage Collection Systems









# Why the 6 Day Cycle?

- Asked to find savings (\$200,000/yr)
- Also, added new service – separate curbside pickup of yard materials and fall leaves
- Avoided recycling and garbage collection costs = \$17 to \$20 million





# Collection Options Examined

Options	# of Collections	Impact to Budget (\$ 000's)	\$/hhld served
Existing	42	\$0	\$0
Seasonal	39 – garbage 52 - recycling	\$700,000 to \$1,000,000	\$7
5 Day	50	\$700,000 to \$900,000	\$7
Weekly	52	\$1,100,000 to \$1,300,000	\$10



# Collection Frequency- Feedback

**Public input – Until end of April, 2014**

- Social & traditional media
- Targeted information to groups and people
- Website and feedback tools
- Community survey
- Outreach (e.g., TREA, LHBA Home Show)







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Questions