



THE CITY OF
CALGARY
WASTE & RECYCLING SERVICES

Progress Towards 80 Percent Waste Diversion By 2020

**SWANA Northern Lights Conference
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Saskatoon, SK**

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80/20 by 2020

- Council-approved waste diversion strategy to divert 80% of waste from landfill disposal by 2020

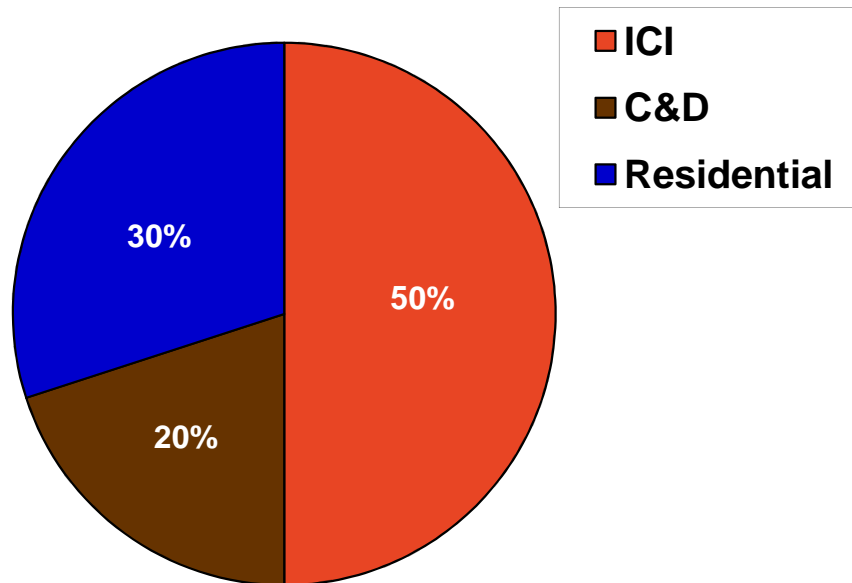
- Based on the waste management hierarchy – **Resource not Waste**
 - Reduce
 - Reuse
 - Recycle
 - Residual management

Importance of 80/20 by 2020

- Extends remaining landfill life

- Waste management issues contribute to larger environmental and regulatory issues
 - Greenhouse gases (GHG)
 - Alberta Environment requirements

Waste to Landfill



- 650,000 tonnes to City landfills in 2010
- 194,000 tonnes from single family residential
- Remainder from industrial, commercial, institutional and construction & demolition

Current Residential Waste Diversion Programs

- Blue Cart recycling
- Community recycling depots
- Leaf and pumpkin

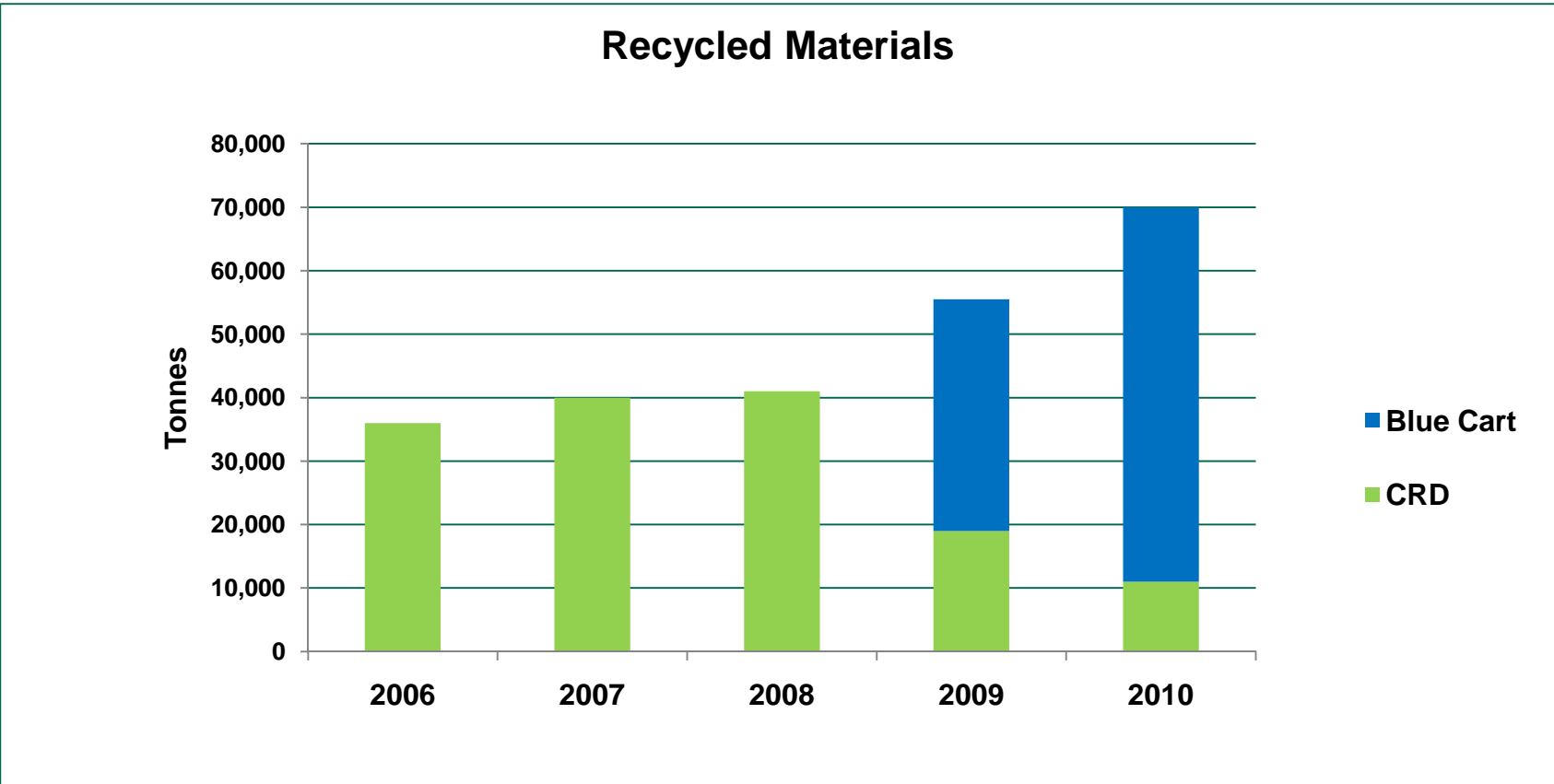


Current Residential Waste Diversion Programs

- Christmas trees
- Backyard composters
- Stewardship programs (electronics, tires, HHW, and refundables)
- Public education



Calgarians are Recycling More than Ever



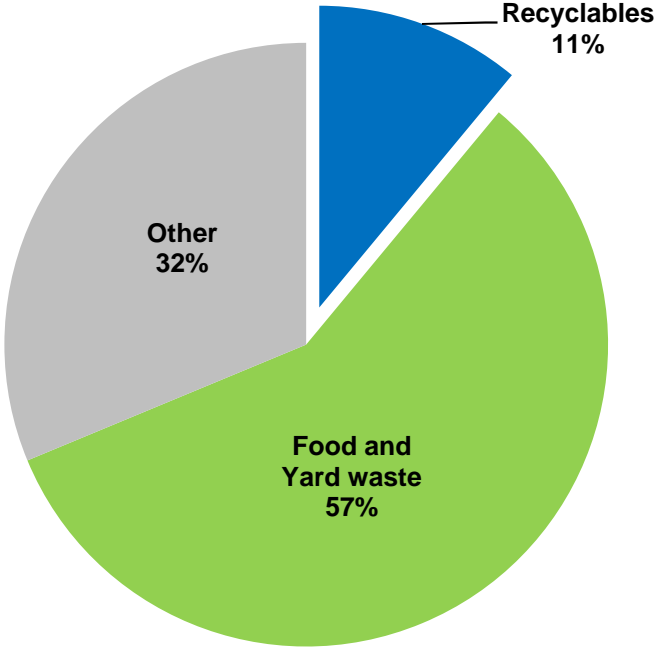
Opportunities for Improvement

- Calgarians are doing a good job – 90% acceptable materials
- Common unacceptable items
 - Scrap metal
 - Styrofoam
 - Electronics
 - Household hazardous waste containers
 - Reusable items
- When in doubt – leave it out and check it out

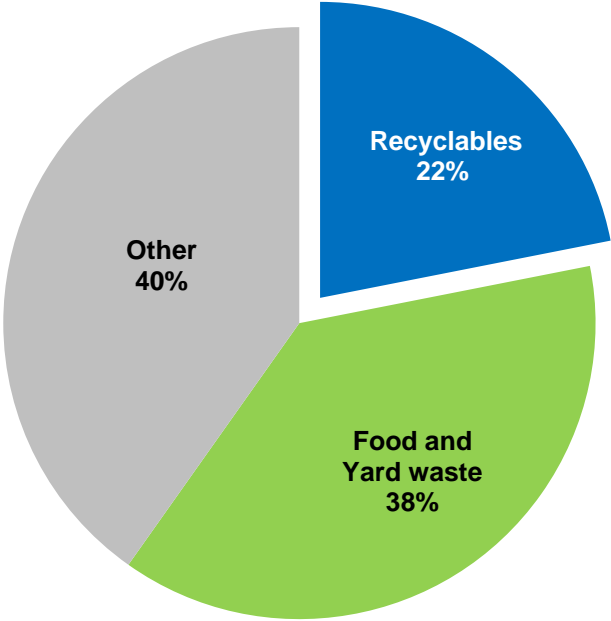
Remaining Recyclables



Single Family



Multi-Family



Remaining Recyclables

- Single family households – 21,000 tonnes
- Multi-family households – 18,000 tonnes

- **Strategies**
 - Continue to promote existing programs
 - Encourage participation; Recycle SMART
 - Multi-family recycling opportunities



Multi-family Recycling

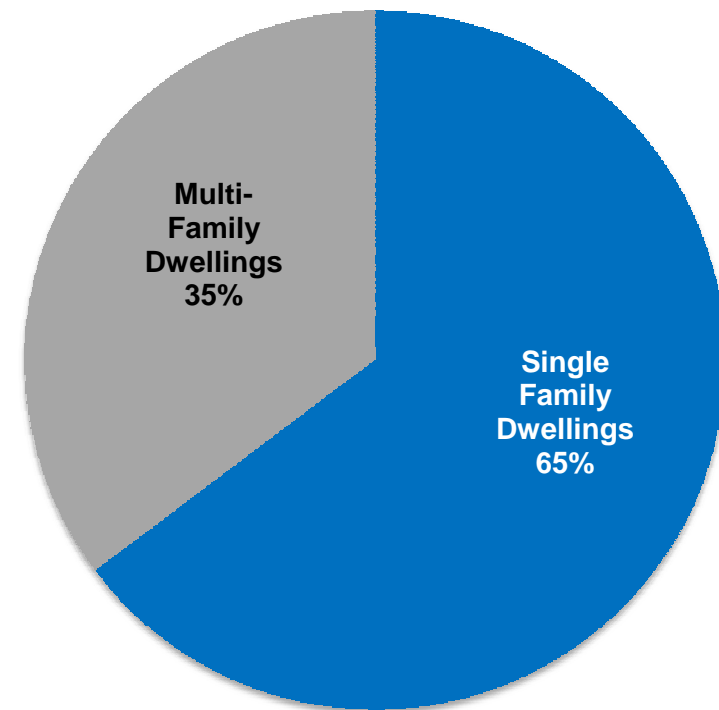
- **Multi-family housing**

- makes up about 35% of all residential housing
- 158,000 units

- **Current opportunities**

- Community recycling depots
- Private recyclers on a fee for service basis; estimated 20-50% of multi-family units have some form of recycling service

158,000 Multi-Family Dwellings



Multi-family Recycling

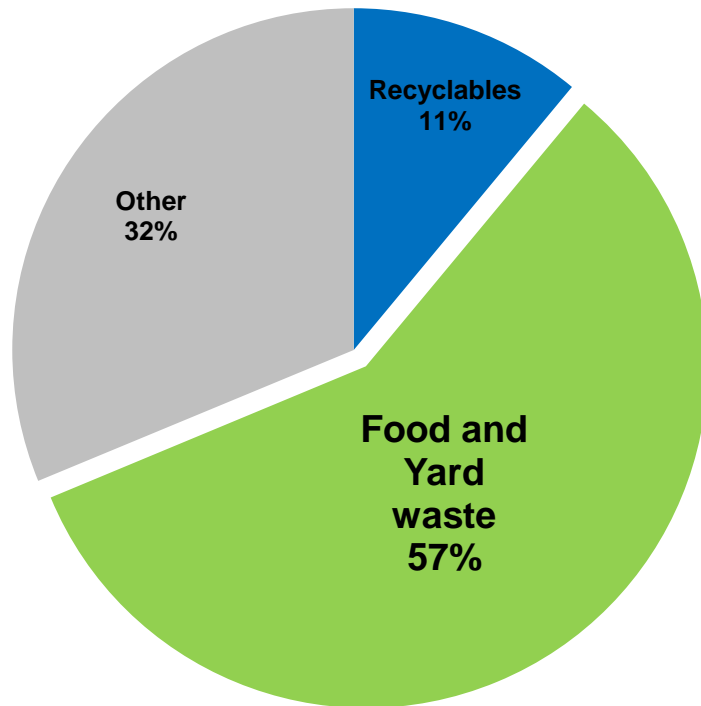
Next Steps (pending Council approval)

- **Short term** - current optional program with City-operated depots and private recyclers
 - *stakeholder engagement*
 - *promote existing opportunities*
 - *further research*

- **Longer term** – develop a strategy considering private partnerships that could be implemented in 2015-2017



Yard and Food Waste in the Garbage

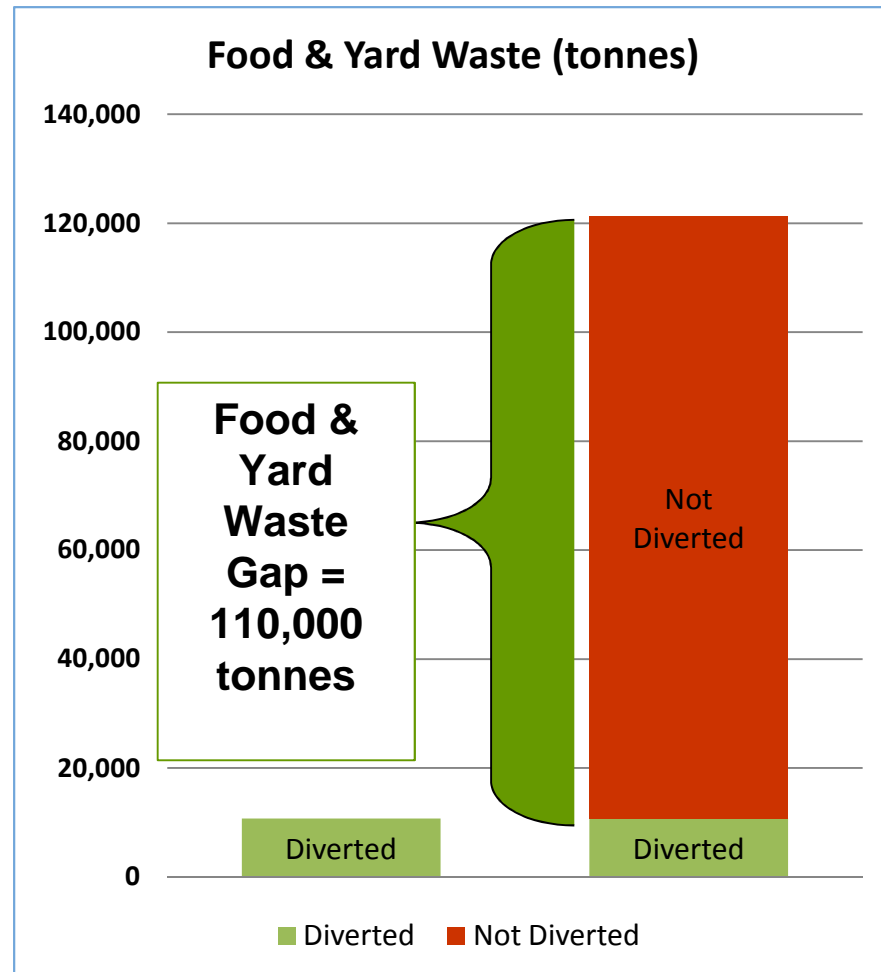


- 35% food scraps
- 22% yard waste
 - Grass
 - Leaves and garden remains
 - Woody material

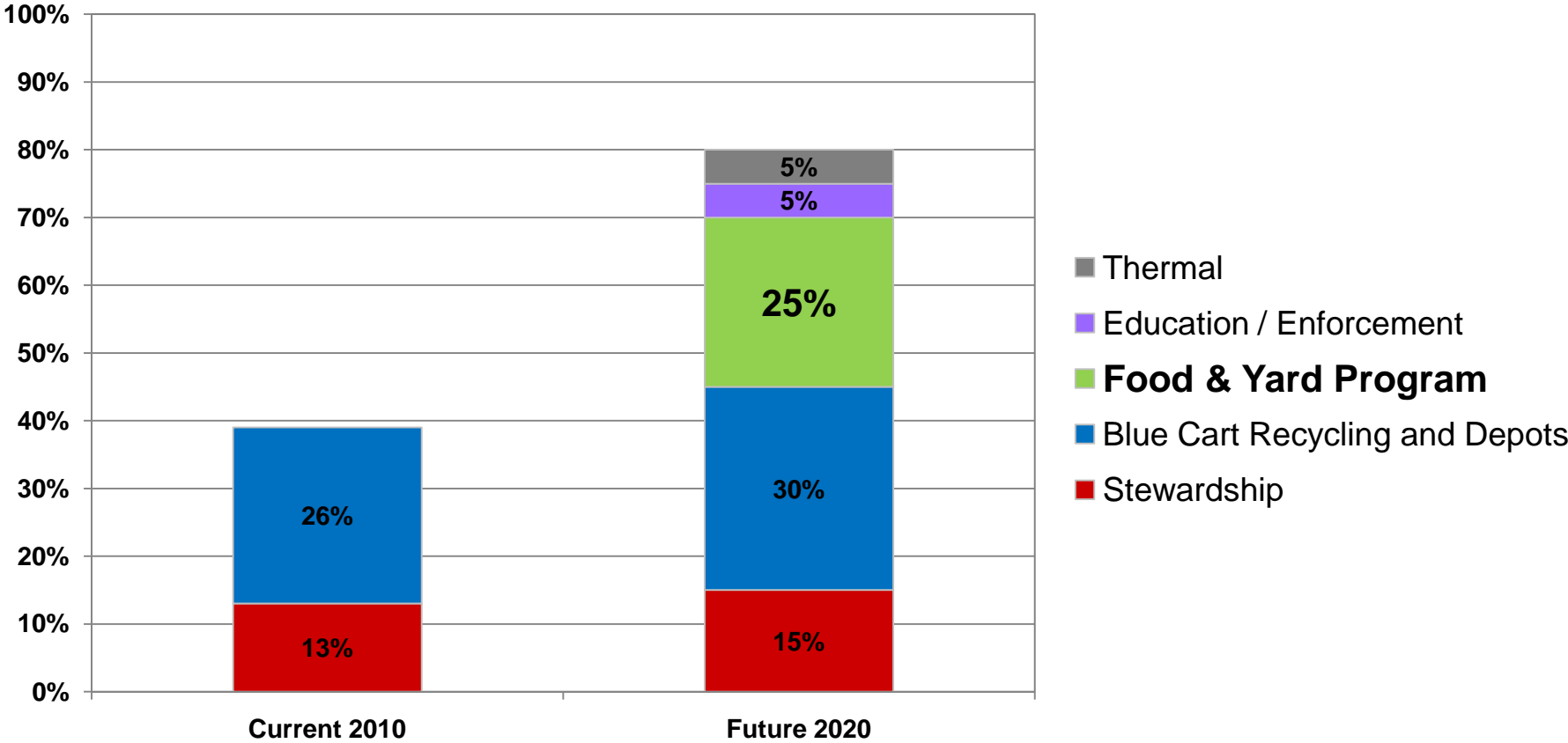
Yard and Food Waste

Existing programs

- Leaf and pumpkin
- Christmas tree
- Backyard composters
- Public outreach
- Grasscycling education



Getting to 80/20 by 2020





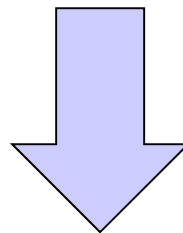
Yard and Food Waste Options

- Detailed technology review conducted
 - Composting – aerobic process
 - Anaerobic digestion – biogas or synthetic fuel
 - Thermal processing – mass burn, refuse derived fuel, gasification



Recommended Diversion Option

- 80% diversion goal
- Conserve resources
- Produce value added product
- Reduce GHG from landfill



Composting

Yard and Food Waste

Next Steps *(pending Council approval)*



- Currently doing research on public opinion
- Report back to Council fall 2011 with research results
- Pilot project starting in 2012
- Construct a processing facility
- Implement a city-wide collection program
 - Yard waste only; possibly add food later
 - Food and yard waste

Conclusion

- Calgarians are diverting more waste from landfill disposal than ever
- Blue Cart recycling has been very successful
- Next biggest opportunity to increase waste diversion is with yard and food waste
- Also opportunity to increase multi-family recycling
- Next steps are pending Council approval

- Questions?
- More information
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