



What's the Problem? (WTP?)



WTP - Food & Climate Change The Global Picture



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Food systems emissions
contribute **19-29% OF TOTAL
GHG EMISSIONS.**

Industry & manufacturing (businesses, factories)
contribute about **21% OF TOTAL GHG EMISSIONS**

WTP – Global Losses



Source: FAO.
Global food losses and food waste – Extent, causes and prevention, 2011



WTP - How much food waste?

Diversion/Recovery Opportunities	London % of Waste	Others (GB) % of Waste
Avoidable food waste	23%	8% - 11%
Unavoidable food waste	12%	6% - 9%
Other Organics, Pet waste	25%	15% - 20%
All Organics	~60%	~30% - 40%

WTP - Value of Avoidable Food in Garbage

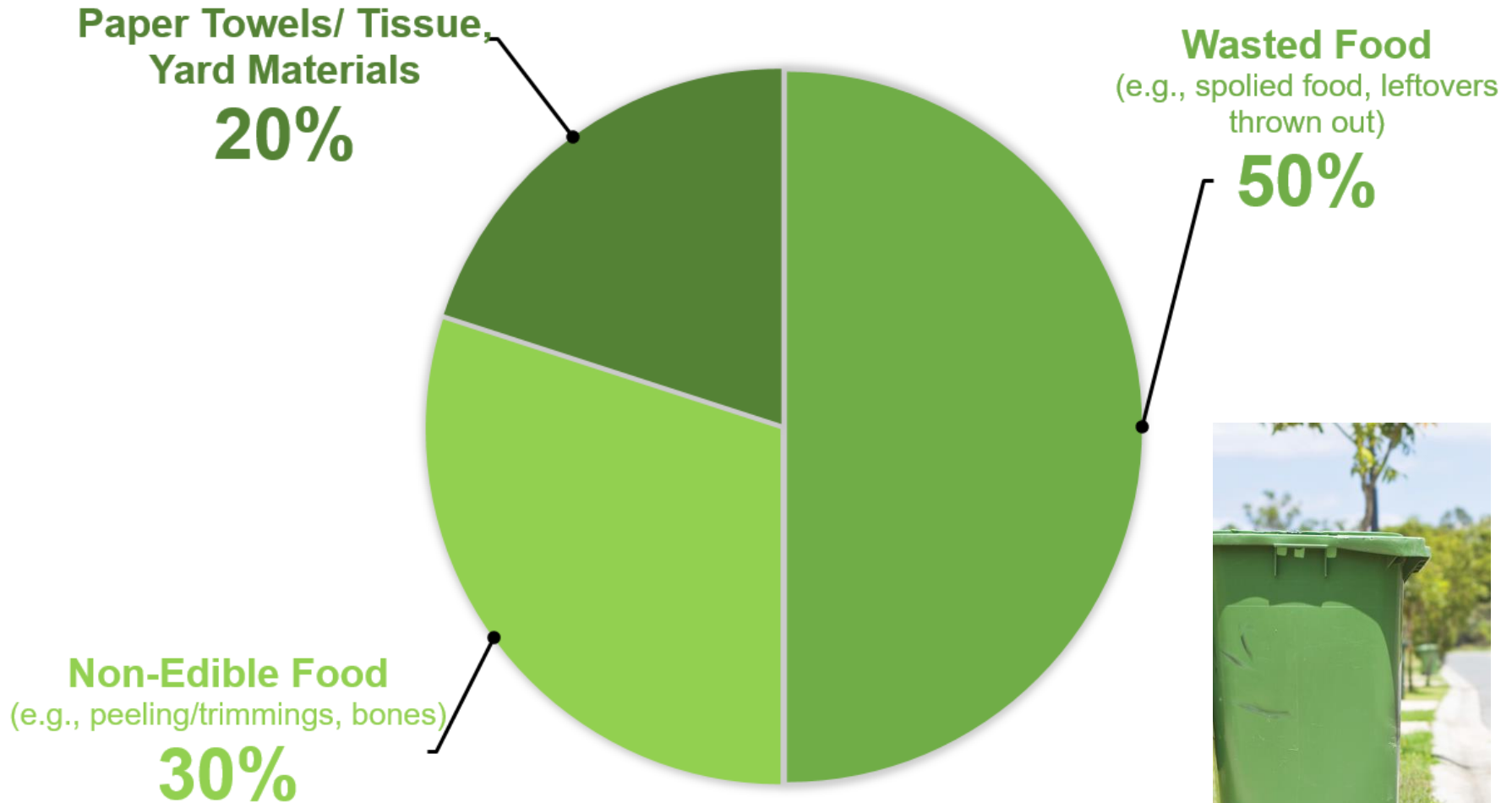


Local Research (Western University), London Pilot Projects . . . and experience in Canada, USA and Europe

- **\$450 to \$600 per household (\$80 to \$100 million/year) in avoidable food**



WTP – Estimated Composition of Green Bins



Source: By weight, based on a few Ontario waste composition studies, estimates vary widely, 2015-18



WTP - Food insecurity, a real municipal challenge

1 out of 14
people in London
and Middlesex
experience
food insecurity
(2011/2012)

Source: Middlesex-London
Health Unit

**In 2011/12. . . almost 7%
of people age 12 and over
living in London and
Middlesex County were
unable to afford the food
they needed.**

**This is similar to the
province and other similar
health unit regions.**



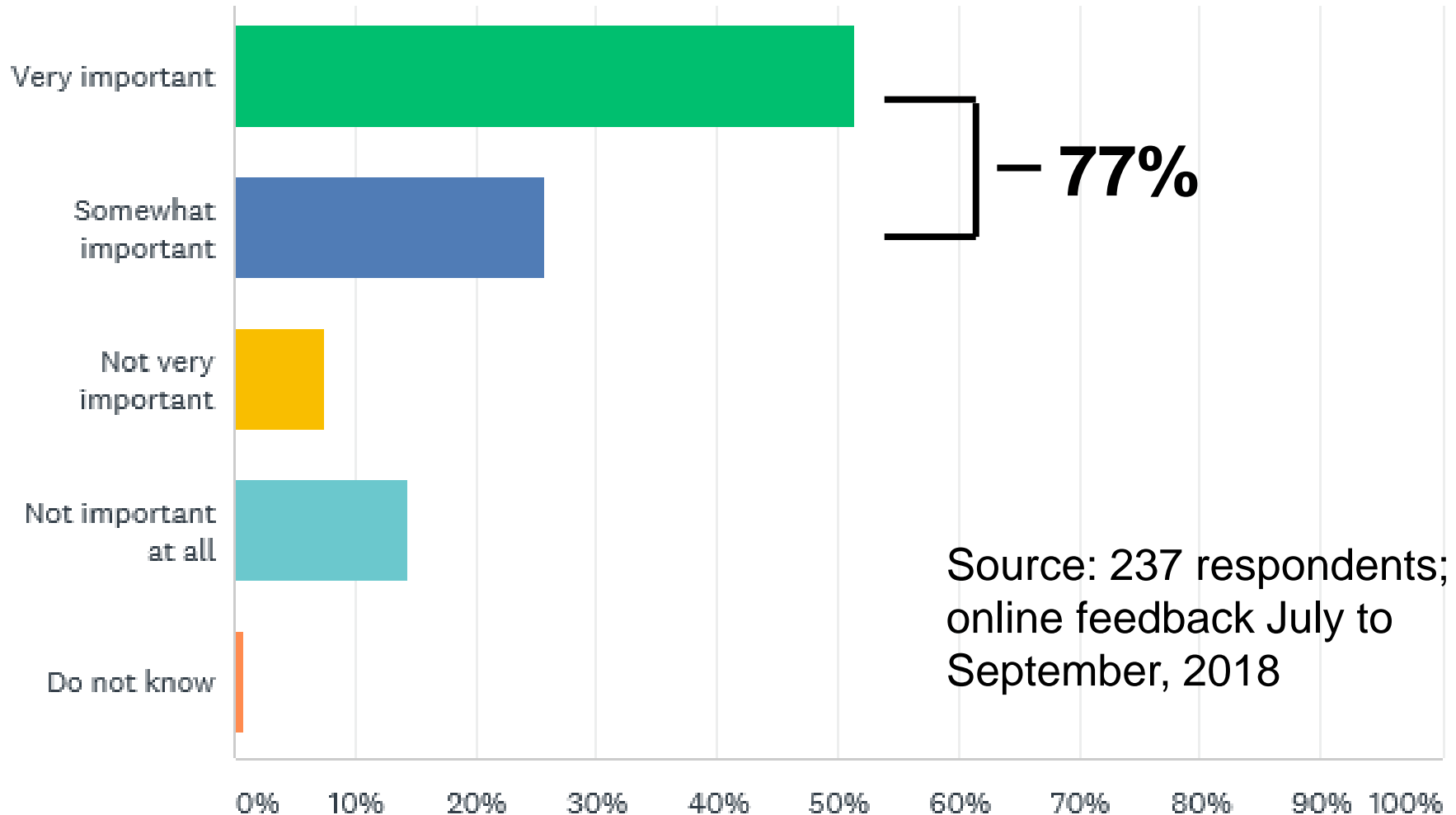
FWA - what is your preferred investment option?

Invest about \$200,000 to save \$1 million	31%
Invest about \$1.2 million . . . to save \$10 million	57%
No Change	12%

Source: Ipsos Public Affairs, online survey (n=301), May 31 to June 4, 2018



FWA - How important is it to you?





Solution – Is this possible?

10% reduction in Avoidable Food Waste = \$8 to 10 million saved

FWA Program	\$1 M
Green Bin Program	\$4 M
Reduce Food Insecurity	\$3 M