

H-GAC Solid Waste Workshop Series on Recycling Recycling - Contamination and Challenging Markets

Digital Solutions

Creighton Hooper



Since 2001



Our areas of focus



Digital transformation

Helping local governments achieve better waste & recycling program performance, at a lower cost.



Recycling education

Focusing on what residents want, we help you empower them to be better recyclers.

We've been at it a long time

- North America's largest provider of recycling education technology available in over 3,000 municipalities
- Founded in 2001
- Headquartered in Toronto

Leaders in innovation

- Pioneered the use of traditional <u>wall calendars</u> for recycling education
- World's first <u>mobile app</u> for MSW
- Early adopter of <u>voice technology</u> (Google Home, Amazon Echo/Alexa)



Progressive organizations choose Recycle Coach



Do you feel you have contamination <u>under control</u>?

Do you feel you have very <u>little control</u> over contamination?

Over the next 12 – 24 months do you expect contamination rates to improve? Get worse? Stay the same?

Do you feel that lack of funding for education is – at least in part - a reason for high contamination levels?

Goal for today

Empowerment.



Full disclosure

We have competitors

- Recyclist
- Recycle by City
- Recyclebank
- Recollect Systems
- Remyndr
- Waste Management
- Republic Services
- 'In house' IT departments
- Teenagers

Recycling programs are a mess

Many people aren't very good at it

- Don't know; guess
- Think they know
- Simply 'recycle' everything

Programs are losing money

- Low recovery rates
- Low quality (contamination)

Unrecovered recyclables and contamination cost US municipalities \$3.7 BILLION every year

\$327M in Texas

Source: EPA 2015 Facts and Figures about Materials, Waste and Recycling report.

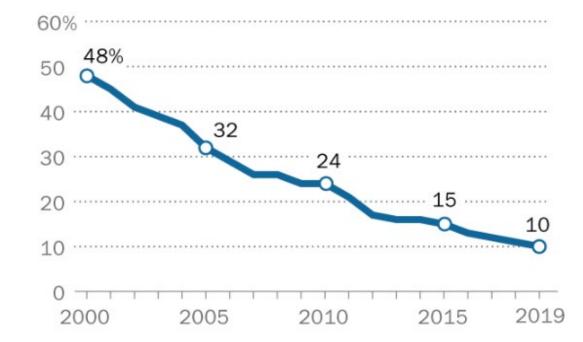
What to do.

Digital transformation lowers contamination and improves recovery by leveraging technology to engage residents, and teach them to be better recyclers.

Almost everyone is online

Offline population has declined substantially since 2000

% of U.S. adults who say they do not use the internet



Source: Survey conducted Jan. 8-Feb. 7, 2019. Trend data from previous Pew Research Center surveys.

Educating 25-55 year old adults about recycling is a priority

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What about older residents?

According to

91 percent of those age 50+ report using a computer

More than 80 percent of Americans age 50 to 64 have smartphones, which is about the same as the population at large

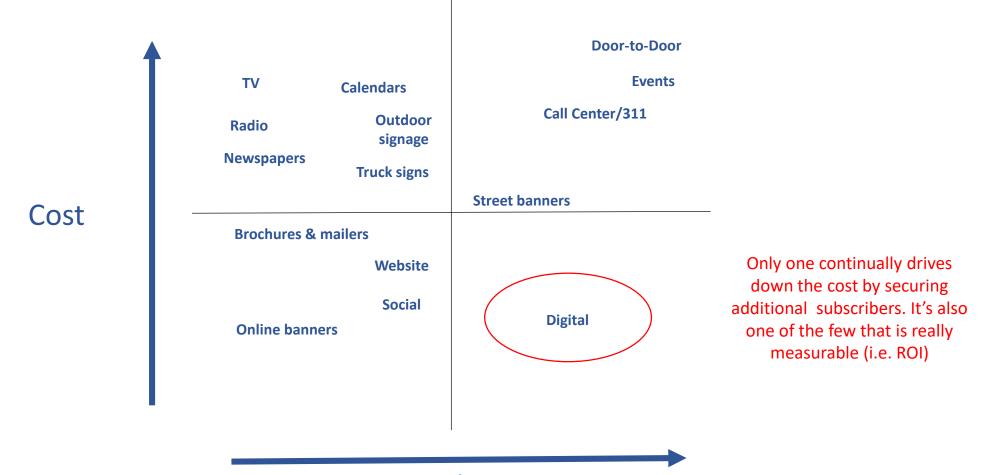
Nearly 1 in 7 Americans over 50 own a home assistant, such as Google Home or Amazon Alexa

Breakdown by age

Comparing states with the highest & lowest % of residents 55+

Population by Ag	e						
	Total						
	Population	Age 0-24	%	Age 25-54	%	Age 55+	%
United States	321,418,820	104,865,003	32.6%	127,915,146	39.8%	88,638,671	27.6%
States with the h	ighest percentage	of residents 55+	÷				
Maine	1,329,328	367,134	27.6%	503,052	37.8%	459,142	34.5%
Vermont	626,042	187,851	30.0%	231,553	37.0%	206,638	33.0%
West Virginia	1,844,128	545,190	29.6%	693,728	37.6%	605,210	32.8%
Florida	20,271,272	5,863,852	28.9%	7,811,289	38.5%	6,596,131	32.5%
Montana	1,032,949	327,230	31.7%	376,229	36.4%	329,490	31.9%
	25,103,719	7,291,257	29.0%	9,615,851	<mark>38.3</mark> %	8,196,611	32.7%
States with the lo	owest percentage	of residents 55+					
Georgia	10,214,860	3,521,179	34.5%	4,179,585	40.9%	2,514,096	24.6%
Texas	27,469,114	9,983,424	36.3%	11,208,891	40.8%	6,276,799	22.9%
Alaska	738,432	266,889	36.1%	305,082	41.3%	166,461	22.5%
District of							
Columbia	672,228	199,758	29.7%	325,777	48.5%	146,693	21.8%
Utah	2,995,919	1,252,818	41.8%	1,150,801	38.4%	592,300	19.8%
	42,090,553	15,224,068	36.2%	17,170,136	40.8 %	9,696,349	23.0%

Relatively speaking, how personalized is digital communication?



Personalization



Let's talk digital

Digitally transforming your education & outreach efforts to lower costs and increase engagement

INBOUND Make your program information EASY TO FIND

According to Zendesk:

- 67% of people prefer finding information using a self-service option over speaking with a representative
- 40% call only after looking for an answer online
- 91% said they would use a searchable online database if it was available and easy to use



INBOUND What's the strategy?

- 1. Digitize your program information
- 2. Optimize it for search
- 3. Allow residents to access it any way they want



INBOUND How it works

Program Info

Personalized calendar

Regular & holiday reminders

What goes where?

Collection requirements

Depots

Devices

Computers

Tablets

Smart phones

Smart devices (Amazon Echo, Google Home)



Search

Mobile app

Web app

Digital assistants (e.g. Alexa)

INBOUND Why embrace digital technology?

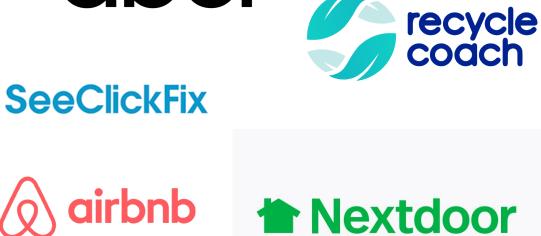
- 1. Many residents, particularly millennials, will not spend much more than 5 seconds looking for information
 - a) If they cannot find what they need quickly, they give up (likely forever?)
- 2. Develop your <u>own</u> COMMUNICATIONS NETWORK!
- 3. Save valuable time (answering the phone) that can be spent more productively
- 4. Get valuable insights through data analytics
- It's cheap making basic waste & recycling information widely available to residents has become commoditized



INBOUND Things to consider

People love networks

- Custom self-branded solution or leverage a popular network?
 - Flexibility (not locked in)
 - Design/performance updates
 - Promotional budget
- Who sets up and manages your database?
 - Having searchable information that is incomplete is almost as bad as not having it searchable
 - Take advantage of crowd-sourcing or be prepared to devote hours to weekly upgrades





Uber

remyndr

ticketmaster®

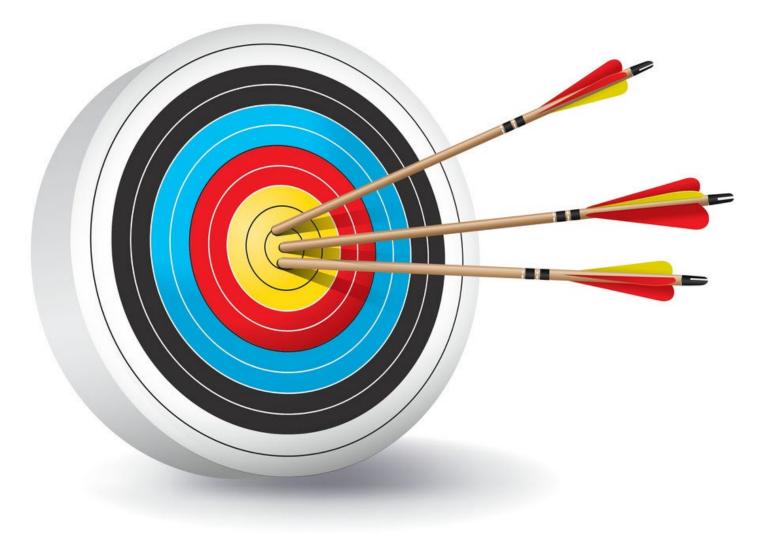




Why wait?

Questions?





Outbound

Addressing the issues that are affecting your program performance

OUTBOUND Strategy & tactics

Engage & educate:

- 1. Save money by leveraging your own communications network
- 2. Get their attention; make recycling fun
- 3. Promote engagement and curiosity with a few key (simple) messages
- 4. Launch campaigns about specific program challenges
- 5. Teach them where they can find answers to their questions



OUTBOUND **1. Own your** communications network

People willingly download the app or sign up to get:

- Reminders
- Printable PDF calendars
- 'What goes where?' information
- Event details
- Relevant articles



OUTBOUND 2. Get your residents' attention

- 1. Use eye-catching images
- 2. Humor works!

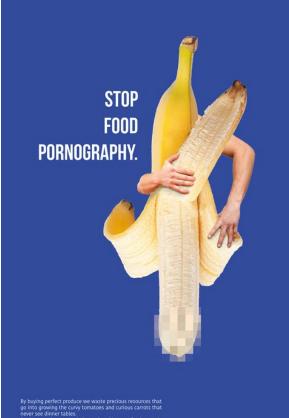




buying perfect produce we waste precious resources that into growing the curvy tomatoes and curious carrots that wer see dinner tables. the next time you're being seduced by a perfectly round mato, remember that beauty comes from within. And rtunately, so does taste.



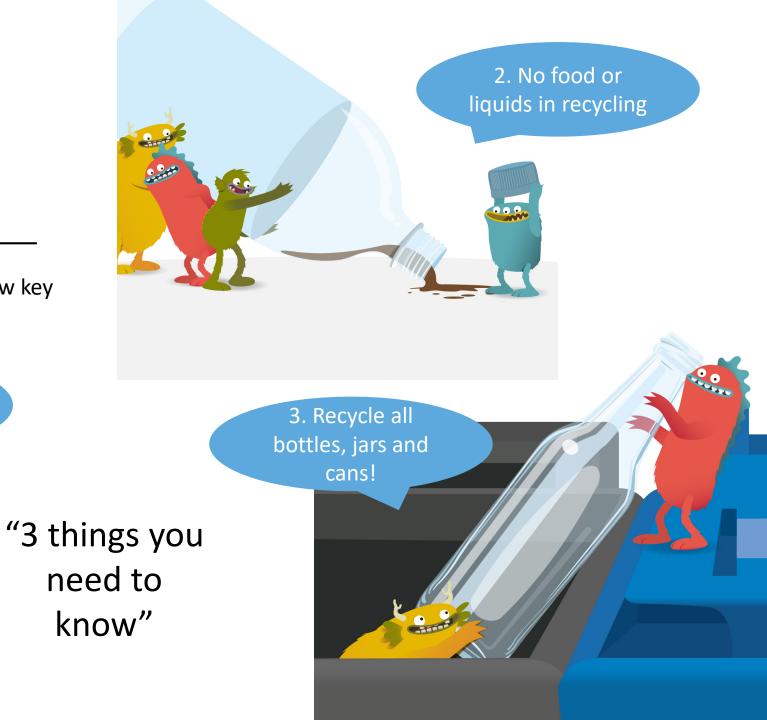




OUTBOUND **3. Keep it simple**

Promote engagement and curiosity with a few key (simple) messages





OUTBOUND 4. Focus on key challenges

Launch Campaigns about specific program challenges:

- Tanglers
- Food residue
- Plastic bags
- Pizza boxes
- Recycle more aluminum cans
- Coffee cups

Leverage your <u>own</u> communication network, which GROWS every time you run a Campaign!

KNOW YOUR NO

't tangle or contaminate. Recycle more for our s



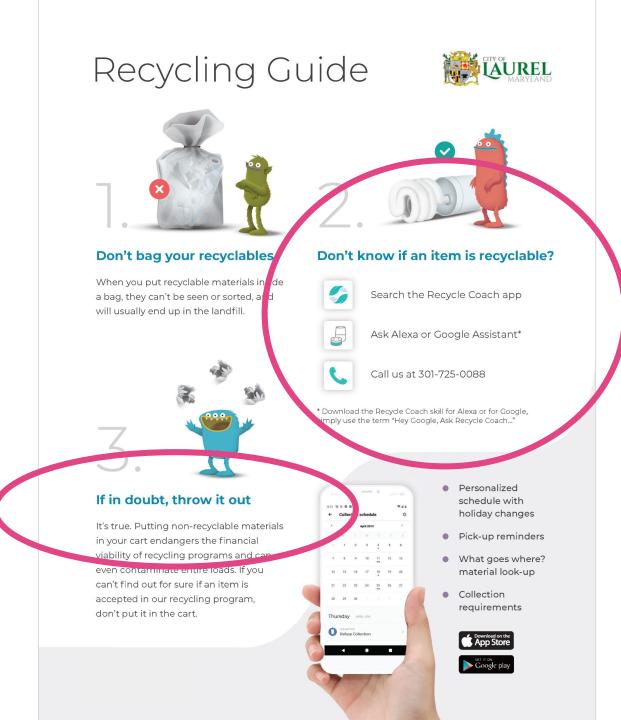
TANGLERS

oses, cords, holiday lights, etc. le up the recycling equipme

OUTBOUND 5. Teach them where they can find answers

Don't forget about other communication channels

Also what to do if they aren't sure



OUTBOUND Need some help?

About the Coachlings

- Free to use; minimal charge for custom artwork
- Not necessary to be a Recycle Coach client



Can I afford all this?



What does it cost?*

Fees are typically charged annually; set-up fees are often waived

Usually based:

- Population
- # of distinct programs
- Features

A <u>complete inbound/outbound package</u> for municipalities with populations of 20 – 500K:

• 15¢ - 90¢ per household, annually

Population – 20K	Population – 50K	Population – 100K
\$5-7K per year	\$10-15K per year	\$15-25K per year

Tip Substantial savings are available when you combine your purchasing power.

*Ballpark estimates only – each situation is different and pricing will vary based on the provider and program specifics

What we've discussed today

- 1. Digital transformation is a good thing
 - Reaches the majority of residents
 - Increases personalization and lowers cost
- 2. Implementing a digital strategy is easy
 - Inbound make information easy to find
 - Outbound address key challenges
- 3. It costs less than you may have thought can fit almost any budget





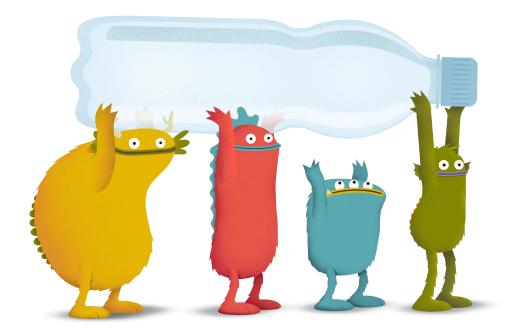
Who feels more empowered to start taking back control of your program?

Win me!

Who did the Toronto Raptors beat on Sunday to advance in the NBA playoffs?

Hello, my name is Scarlett. I have 22 brothers and sisters; it's very tiring sometimes.





Questions?

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Empowering people to help the environment by becoming better recyclers