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Lincolnshire Waste Partnership's Twin Stream Project

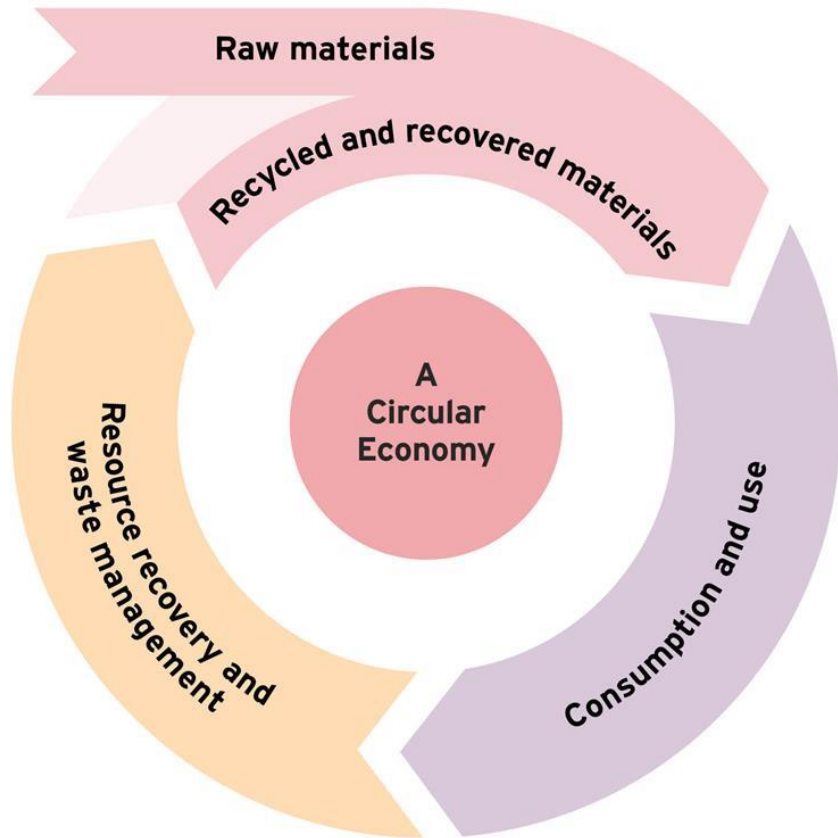
Changing Operational Practices



What are we doing?

- Separate kerbside collections of paper & card alternating with other mixed dry recyclables
- Initial trial successful so rolling out countywide
- Accompanying “Right Thing, Right Bin” communications campaign
- Facilitated by partnership working between upper-tier WDA and lower-tier WCAs through LWP

Why are we doing it?



- Supporting government focus on Circular Economy through:
 - Improving quality
 - Proximity principle
- Partnership working = Disposal savings need to help support new collections.

How are we doing it?

Partnerships and Trial design

Purple Bin Trial 2019/20

Resident Feedback – Summary Results



North Kesteven
DISTRICT COUNCIL

Corporate

Second floor,
Blenheim Court,
19 George Street,
Banbury, Oxon.
OX16 5BH
wrap.org.uk



WRAP support to Lincolnshire Waste Partnership:

Element 2: Two-stream Recycling Collections Briefing Paper

For the purposes of the Project, we will model an 'alternative Option' comp recycling: In light of recent developments in the market for secondary materials inputs and outputs from the RCY128-007 project, we will assess the wider be current comingled dry recycling collections with a two-stream collection.

To inform this assessment we have carried out a material value chain assessment pricing approaches, risk attitude and emerging trends across the reprocessing market in terms of comingled and two stream recycle. This desk-based exercise emerging legislative and statutory requirements, trends, likely maximum and market preference for comingled vs source separated materials and the impact markets for post-MRF materials. Please note, market feedback is anonymous issues.

Operational and Legislative Background

Purple-lidded Wheelie Bin Paper and cardboard <small>Processed at a dedicated paper mill</small> CLEAN, DRY AND LOOSE <small>Anything wet or damp please place in black bin</small>	Green-lidded Wheelie Bin Recycling Items <small>Processed at a recycling plant in Lincolnshire</small> CLEAN, DRY AND LOOSE <small>Squash cans and plastic bottles</small>	Black Wheelie Bin General waste <small>Majority turned into electricity in Lincoln</small> NON-RECYCLABLE ITEMS <small>No electricals</small>
<ul style="list-style-type: none"> Paper (no glue/paint) Cardboard tubes/boxes Food packaging boxes (no grub) 	<ul style="list-style-type: none"> Glass bottles and jars Metal cans/ tins Foil aerosols 	<ul style="list-style-type: none"> Food waste Crisp packets/ food pouches Plastic bags/film/ food wrapping
<ul style="list-style-type: none"> Cardboard egg boxes Envelopes with/ without plastic windows Junk mail 	<ul style="list-style-type: none"> Plastic bottles Cleaning product bottles Toiletty bottles 	<ul style="list-style-type: none"> Cigarette packets/butts Nappies/wipes/ soiled tissues Takeaway containers
<ul style="list-style-type: none"> Newspapers/ magazines Household packaging Greeting cards (no glitter) 	<ul style="list-style-type: none"> Plastic pots, tubs and trays Cartons Bottle lids/tops 	<ul style="list-style-type: none"> Hard plastics, metal/plastic pots and pans Shredded paper (bagged) Polystyrene packaging/ bubble wrap
<p>No thanks</p> <ul style="list-style-type: none"> Takeaway pizza/food boxes Shredded paper Tissues/kitchen roll Books Cigarette packets Wrapping paper (glittery/foil) 	<p>No thanks</p> <ul style="list-style-type: none"> Paper and cardboard Batteries or electrical items Crisp packets or plastic bags Polystyrene Clothes/textiles Food pouches Black or brown plastic food trays Hard plastics e.g. old toys 	<p>No thanks</p> <ul style="list-style-type: none"> Batteries Electrical items Hot ashes Hazardous waste e.g. gas cylinders, asbestos

How did we do it?

“The Trial”

Your Ref :
Our Ref : NC/DS
Contact : Waste
Email : waste@n-kesteven.gov.uk

The Occupier
Westholme 38 North Street
Digby
Lincoln
LN4 3LY

13th July 2020

Dear Resident

IMPROVING THE QUALITY OF OUR RECYCLING

On behalf of everyone in the Council's waste and recycling team we hope you are well. Since we last communicated with you in February the impact of COVID-19 has had a significant impact on all our lives. Importantly, we have managed to maintain our services and we know are important to you.

It is now time to pick up on the challenge we face in improving the quality of the recycling we collect. Your involvement in the trial to separate the decisions Lincolnshire will make to fund forward.

MUR REJECTIONS FAQS CRID SHEET

Why has my bin not been emptied? As per the letters and communications we need to make sure that the contents of your green-lidded recycling bin should be in there. In Lincolnshire we only accept certain types of waste: glass jars, aluminium and tin cans and clean foil, plastic pots, tubs and trays. These should be placed in your purple bin. If your recycling bin contained anything that we were unable to collect them. Please refer to the poster “Your guide to recycling” which can and can't go into each bin.

What should I do now/When will my bin be emptied? You will need to ensure that your green-lidded bin should not be in there and put them into the right bin. You should then ensure that your purple bin should be in there and we will empty the contents of it. You can of course make use of the Household Waste Recycling Centre (HWRC) by booking a slot at www.lincolnshire.gov.uk

What should I do now/When will my bin be emptied? You will need to ensure that your green-lidded bin should not be in there (plastic bags) that should be in there and we will empty the contents of it. You can of course make use of the Household Waste Recycling Centre (HWRC) by booking a slot at www.lincolnshire.gov.uk

How did we do?

Trial

	North Kesteven DC	
	Paper & Card	MDR
Total tonnage collected (Sep 19 – Sep 20)	135.24	198.02
Average weekly kg per household	1.79	2.30
Participation Rate	95% (max 98%, min 92%)	100%
Rejection Rate	2%	18.8%

How are we doing it?

The “sea of purple lids”



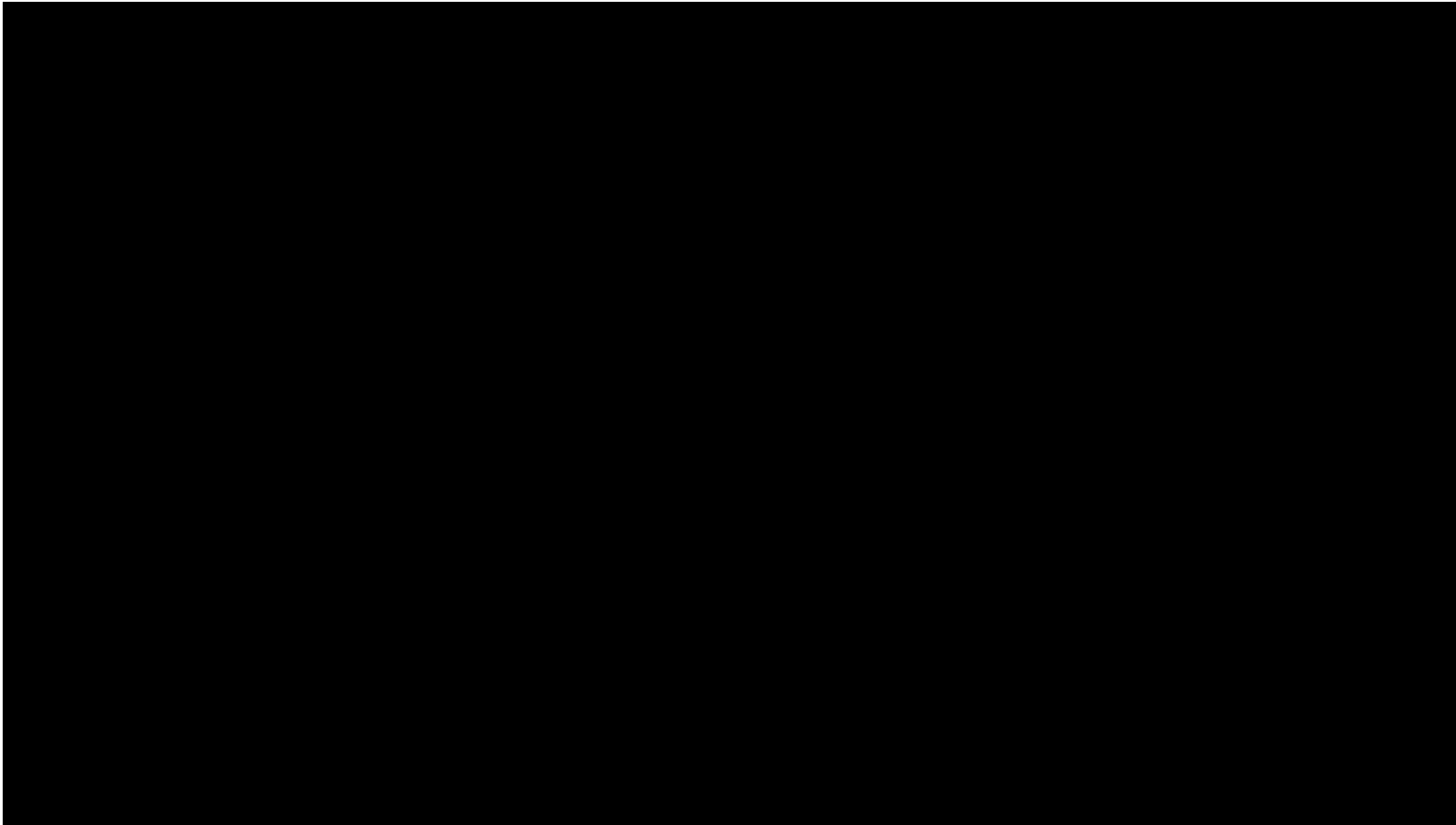
What did we get and where did it go?

Palm Paper – Kings Lynn



How are we doing it?

“Right Thing, Right Bin” and tagging



What happened?

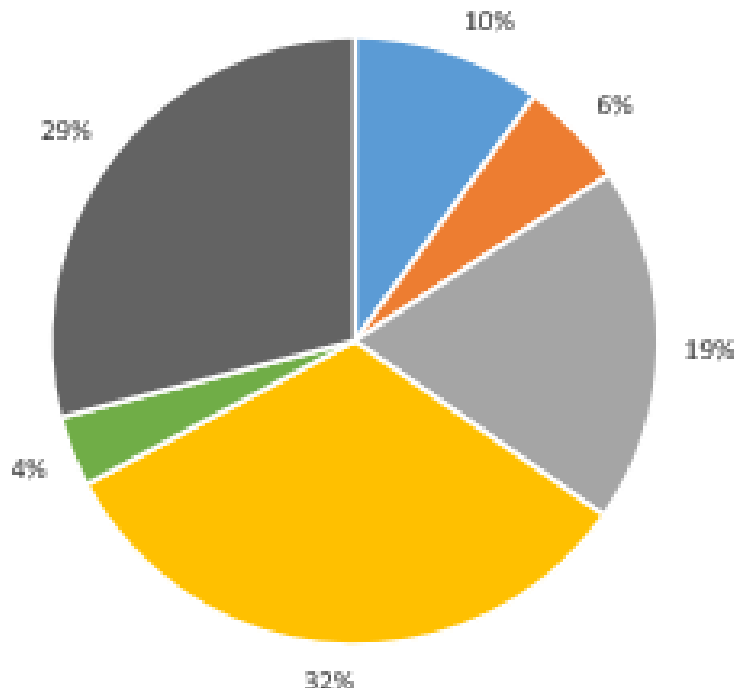


Six Months On...
Before and after.

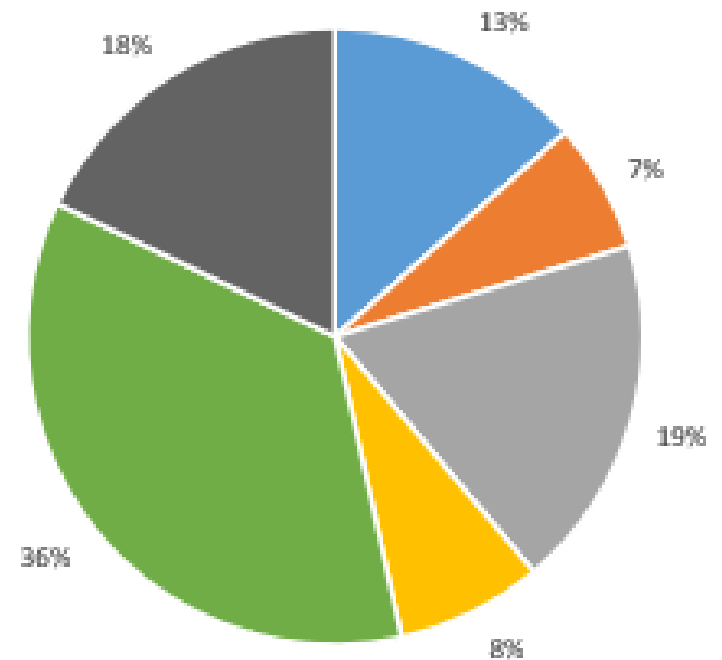
What have we achieved?

Provisional results for first full year in Boston BC...

2020/21



2021/22



■ MDR Plastic ■ MDR Metal ■ MDR Glass ■ MDR Paper/Card ■ Separate Paper/Card ■ NOT RECYCLABLE

Costs & Benefits

- Invest in the required containers, materials and collection methods which we estimate to be £200,000 (across the county) for the duration of the trial.
- Initial investment should be recouped within five years and will be greatly outweighed by the long-term savings.
- It is about us doing the right thing to help protect the environment for the future, as our residents expect.
- Reduce the number of miles it travels before being fully recycled and consequently our carbon footprint.

The challenges ahead of us

- Keeping momentum when dedicated support team moves on.
- Flats and HMOs – Multiple communal bins?
- Sack collections – Seen as contamination?
- Recovering “lost” recyclables – Shown in residual waste sampling.
- Requirements of Environment Act:
 - Food waste collections (from 2025?)
 - Additional dry recycling materials

All made simpler by working together in partnership!